STR-SE581

SERVICE MANUAL

US Model

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SPECIFICATIONS

Audio power specifications

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8 Ω load, both channels driven, from 40 - 20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.5% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Stereo mode	(8 Ω at 40 Hz - 20 kHz less than 0.5% total harmonic distortion) 100 W + 100 W
Surround mode	(8 Ω at 1 kHz, THD 0.5%) Front: 100 W/ch Center: (Pro Logic Mode) 100 W Rear: 50 W/ch
5.1/DVD INPUT* mode	(8 Ω at 1 kHz, THD 0.8%) Front: 100 W/ch Center: 100 W Rear: 50 W/ch
Frequency response	PHONO: RIAA equalization curve ±0.5 dB TV/DBS, CD, TAPE/MD, VIDEO, 5.1/DVD INPUT 10 Hz - 50 kHz ±1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 Kilohms	72 dB* (A, 2.5 mV)
CD	400 mV		
TAPE/MD, TV/DBS, VIDEO, 5.1/ DVD INPUT*	250 mV	50 Kilohms	82 dB* (A, 150 mV)

*78 IHF

Outputs

	TAPE/MD REC OUT: Voltage: 150 mV, Impedance: 10 kΩ VIDEO AUDIO OUT: Voltage: 150 mV, Impedance: 10 kΩ WOOFER: Voltage: 2 V, Impedance: ± 10 kΩ PHONES: Accepts low and high impedance headphones
Muting	Full mute
BASS BOOST	+10 dB at 70 Hz
TONE	±8 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range	87.5 - 108.0 MHz
Antenna terminals	75 ohms, unbalanced 300 ohms, balanced
Sensitivity	Mono: 18.3 dBf, 4.5 µV Stereo: 38.3 dBf, 45 µV
Usable sensitivity	11.2 dBf, 2 µV (IHF)
S/N	Mono: 76 dB Stereo: 70 dB
Harmonic distortion at 1 kHz	 Mono: 0.3% Stereo: 0.59%
Separation	45 dB at 1 kHz
Frequency response	30 Hz – 15 kHz $^{+0.5}_{-2}$ dB
Selectivity	60 dB at 400 kHz

AM tuner section

Tuning range	531 – 1710 kHz
Antenna	Loop antenna
Usable sensitivity	50 dB/m (at 1,000 kHz)
S/N	54 dB (at 50 mV/m)

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

Harmonic distortion	0.5% (50 mV/m, 400 kHz)
Selectivity	At 10 kHz: 40 dB

General

System	Tuner section: PLL quartz-locked digital synthesizer system Preamplifier section: Low-noise NF type equalizer Power amplifier section: Pure-complementary SEPP
Power requirements	120 V AC, 60 Hz
Power consumption	230 W
AC outlets	2 switched, total 120 W/1A Max
Dimensions	17 × 5 7/8 × 11 5/8 inches (430 × 145 × 295 mm)
Mass (Approx.)	16 IB 15 oz (7.7 kg)
Supplied accessories	FM wire antenna (1) AM loop antenna (1) Remote controller (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

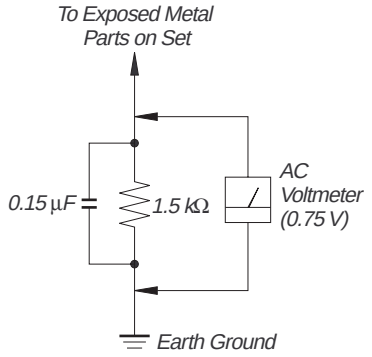

Fig. A. Using an AC voltmeter to check AC leakage.

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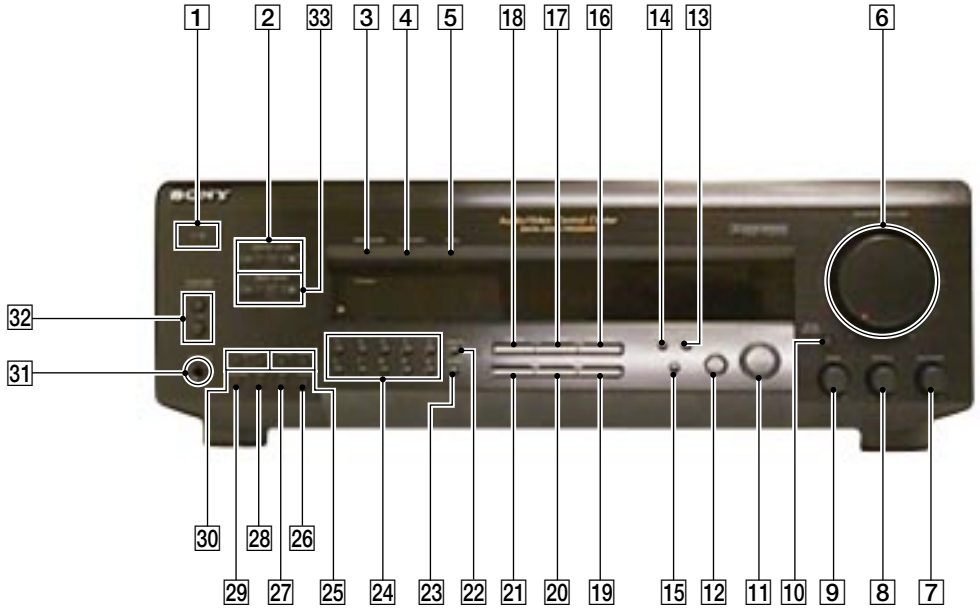
SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

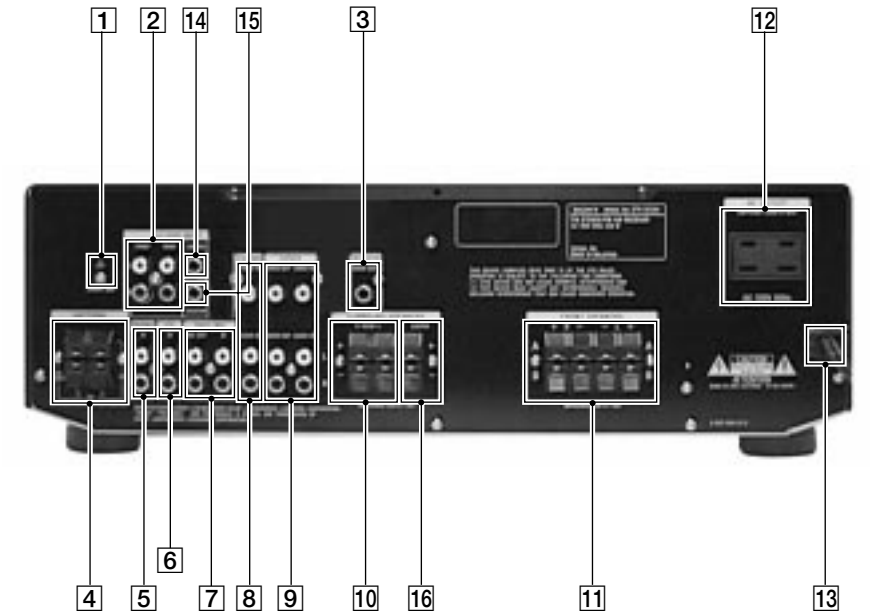
SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS
[FRONT PANEL]



1 POWER switch (I/⏻)
2 CENTER LEVEL +, – buttons
3 PRO LOGIC indicator
4 C. STUDIO indicator
5 HALL indicator
6 MASTER VOLUME control
7 BALANCE control
8 TREBLE control
9 BASS control
10 BASS BOOST button/indicator
11 SURROUND ON/OFF button
12 MODE button
13 SET UP button
14 EFECT/DELAY TIME button
15 5.1/DVD INPUT button
16 TAPE/MD FUNCTION button
17 TV/DBS FUNCTION button
18 VIDEO FUNCTION button
19 PHONO FUNCTION button
20 TUNER FUNCTION button
21 CD FUNCTION button
22 DIRECT button
23 SHIFT button
24 Numeric buttons
25 PRESET TUNING +, – buttons
26 MEMORY button
27 AM button
28 FM button
29 FM MODE button
30 TUNING +, – buttons
31 PHONES jack
32 SPEAKERS A/B buttons
33 REAR LEVEL +, – buttons

[REAR PANEL]



1 SIGNAL GND
2 5.1/DVD INPUT (FRONT/REAR)
3 WOOFER
4 ANTENNA (AM/FM)
5 PHONO
6 CD
7 TAPE/MD
8 TV/DBS
9 VIDEO
10 SURROUND SPEAKERS (REAR)
11 FRONT SPEAKERS
12 AC OUTLET
13 AC power code
14 5.1/DVD INPUT (CENTER)
15 5.1/DVD INPUT (WOOFER)
16 SURROUND SPEAKERS (CENTER)

SECTION 2
TEST MODE

INITIALIZATION MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the VIDEO, TAPE/MD and the CD buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message INITIAL appears and initialization is performed.

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the CD and the TAPE/MD buttons simultaneously, press the power [I/⏻] button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another. The message FINISH appears when this test is complete.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

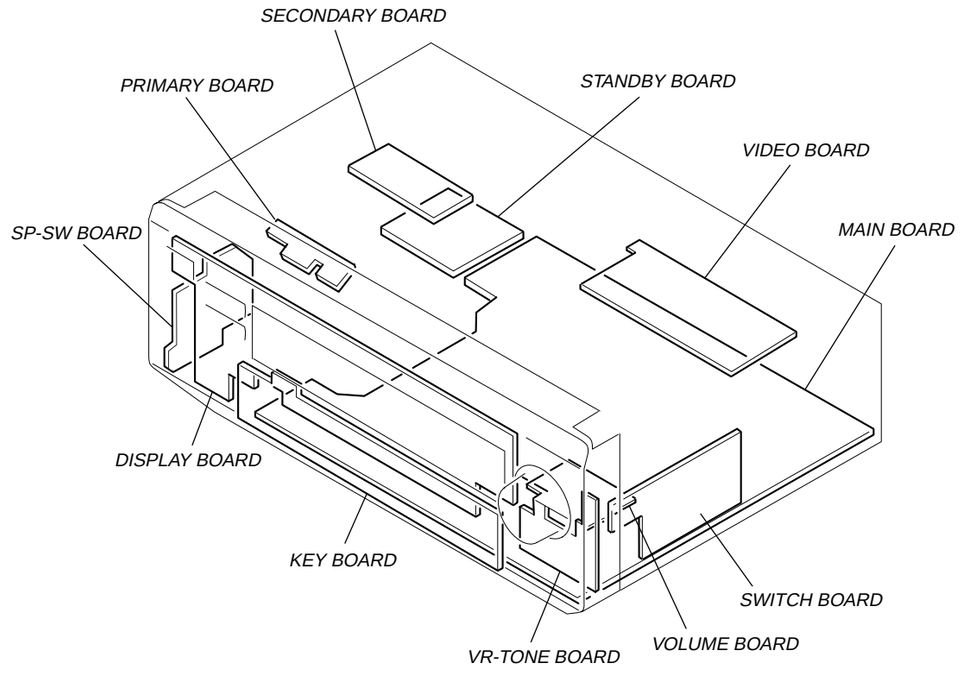
* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button, press the power [I/⏻] button to turn on the main power. Either the message 9k STEP or 10k STEP appears. Select the desired step.

REAR SPEAKER GAIN UP MODE

* The rear speaker gain can be set to either NORMAL or GAIN UP.
* Procedure:
  While depressing the -SURROUND button, press the power [I/⏻] button to turn on the main power. Either the message NORMAL or GAIN UP appears. When the product enters this mode again, the other gain appears. Select the desired gain.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- B+ : B+ Line.
- B− : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM

For printed wiring boards.
Note:

- ○——— : parts extracted from the component side.
- ▒▒▒▒ : Pattern from the side which enables seeing.

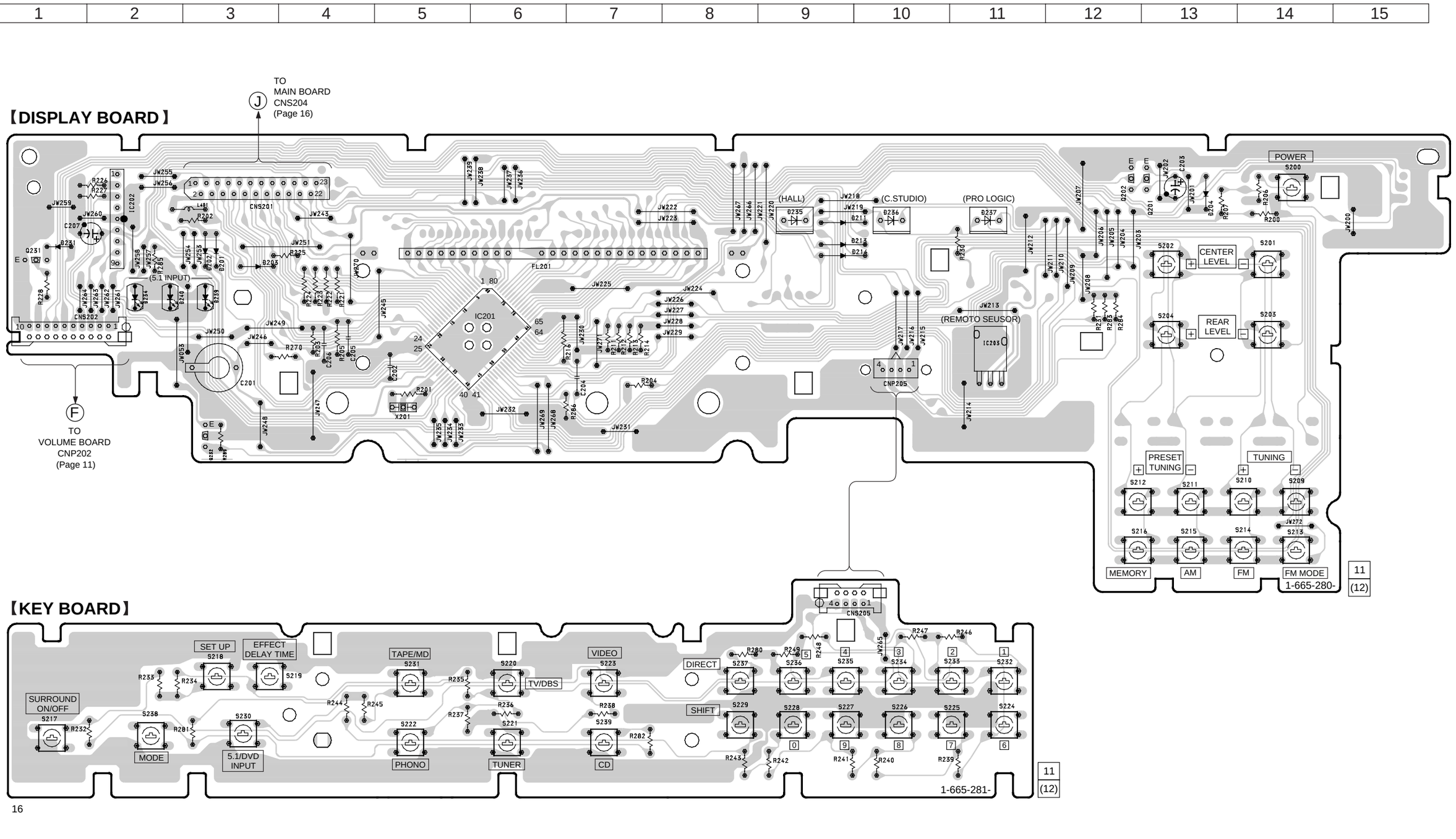
• Waveforms

① IC300 ㉔ (OSC)

② IC201 ㉞ (X1)

3-2. PRINTED WIRING BOARD — DISPLAY SECTION —

【DISPLAY BOARD】



【KEY BOARD】

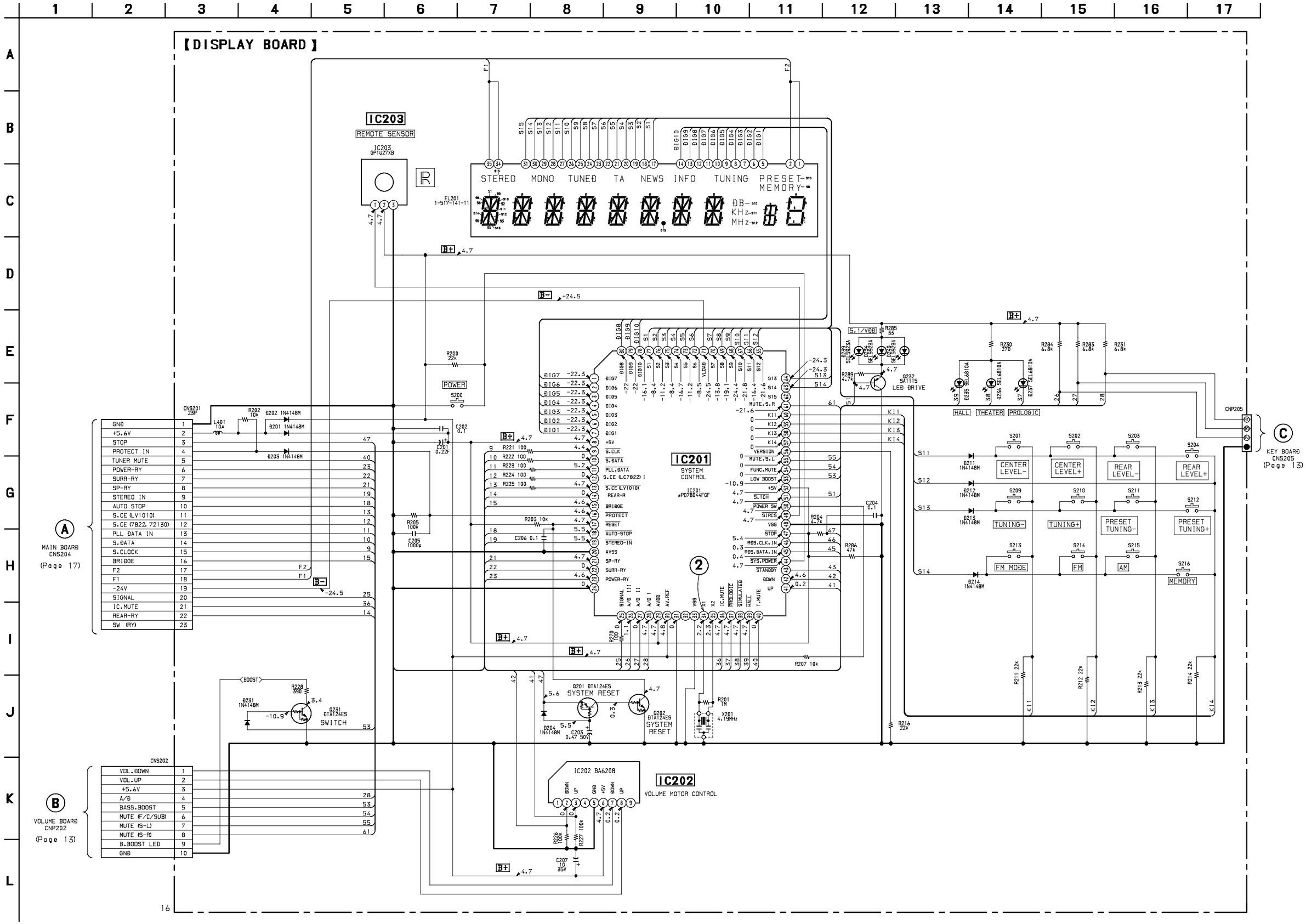
16

• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D201	C-3	D239	C-3
D202	C-3	D240	C-2
D203	C-3		
D204	B-13	IC201	D-6
D211	C-9	IC202	B-2
D213	C-9	IC203	D-11
D214	C-9		
D231	C-1	Q201	B-13
D234	C-2	Q202	B-12
D235	C-9	Q231	C-1
D236	C-10	Q232	E-3
D237	C-11		

3-3. SCHEMATIC DIAGRAM — DISPLAY SECTION —

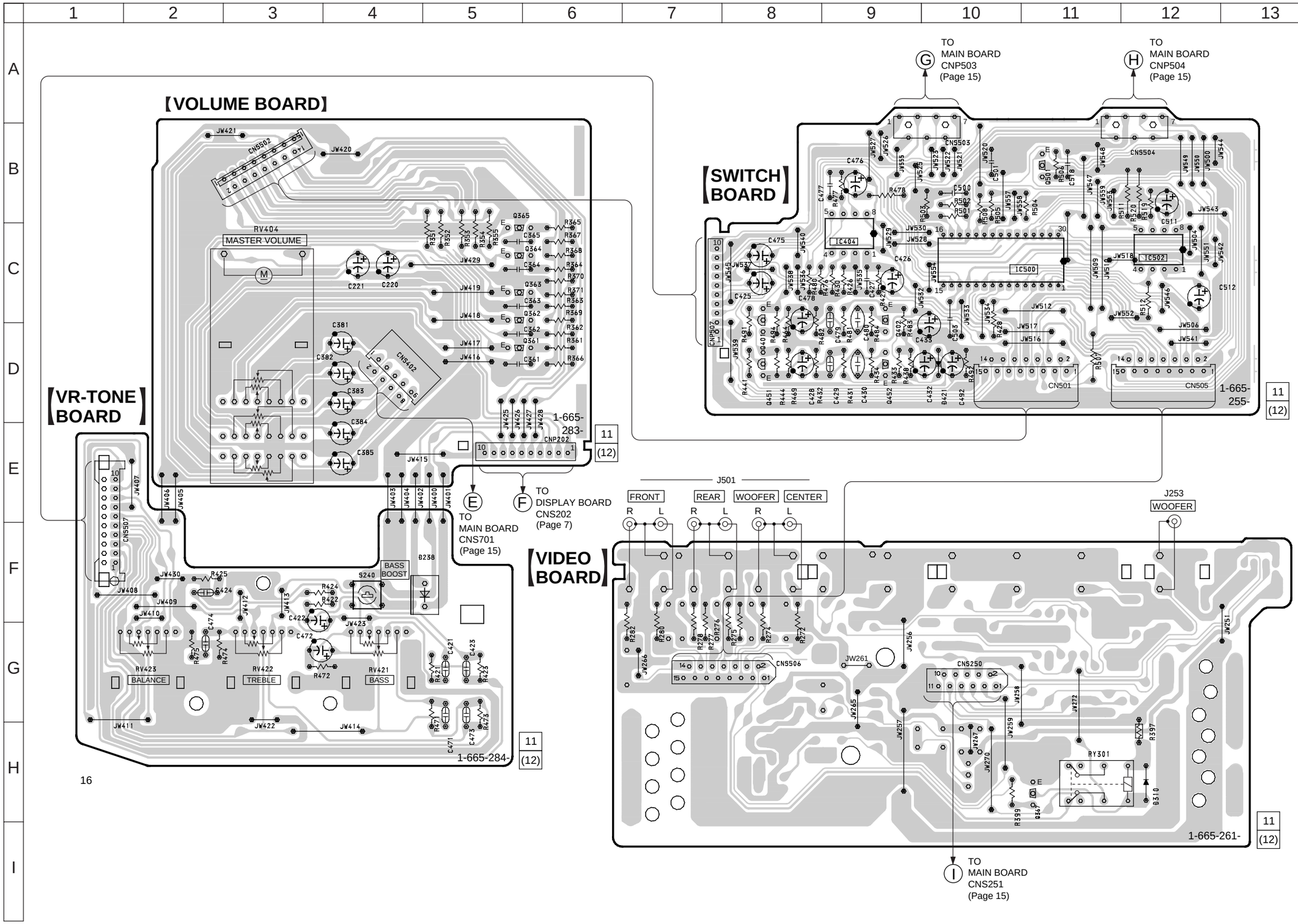
• See page 6 for Waveforms. • See page 25 for IC Pin Functions.



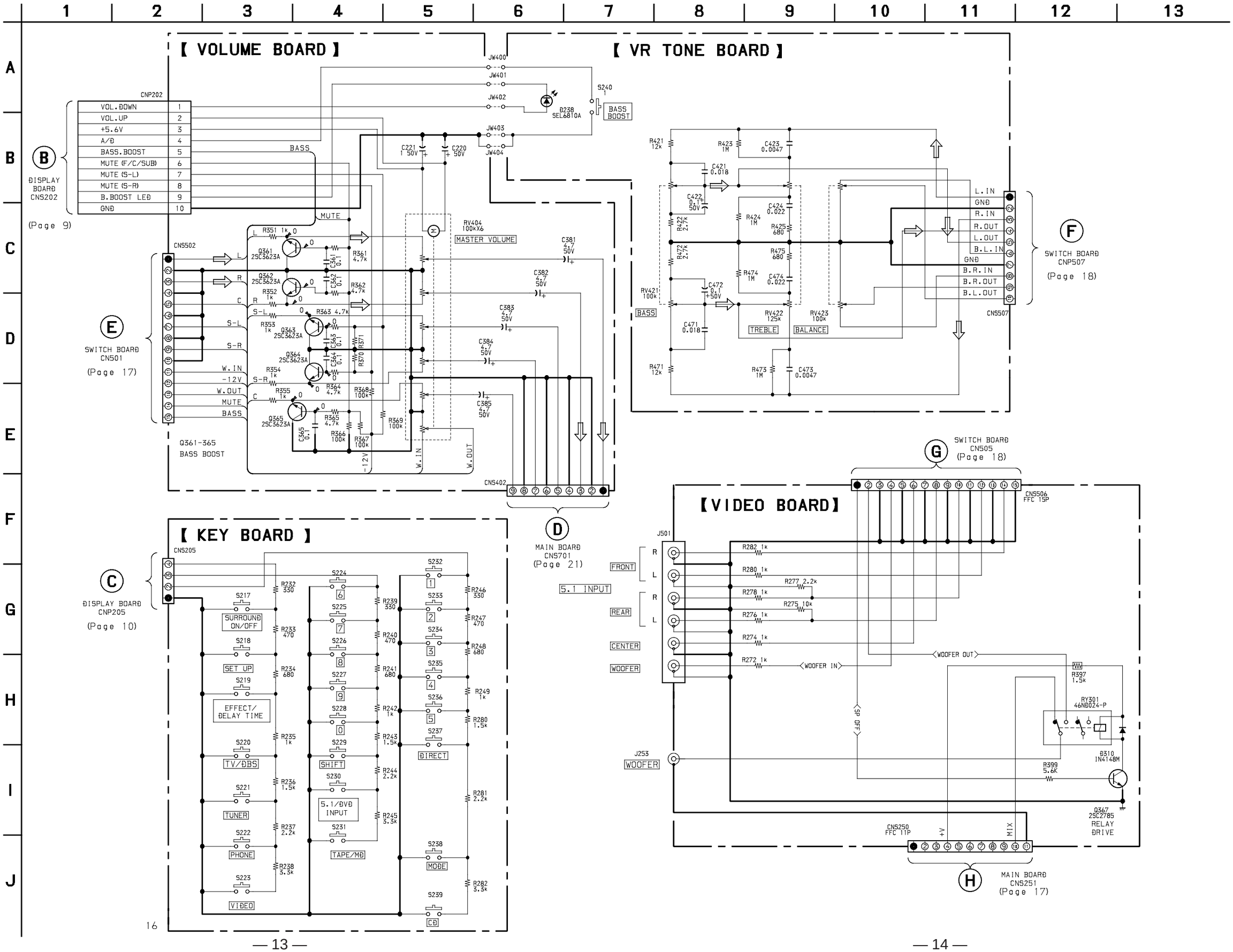
3-4. PRINTED WIRING BOARD — VOLUME/VIDEO SECTION —

• **Semiconductor Location**

Ref. No.	Location
D238	F-5
D310	H-12
IC404	C-9
IC500	C-11
IC502	C-12
Q361	D-6
Q362	C-6
Q363	C-6
Q364	C-6
Q365	C-6
Q367	H-11
Q401	D-8
Q402	D-9
Q451	D-8
Q452	D-9
Q501	B-11



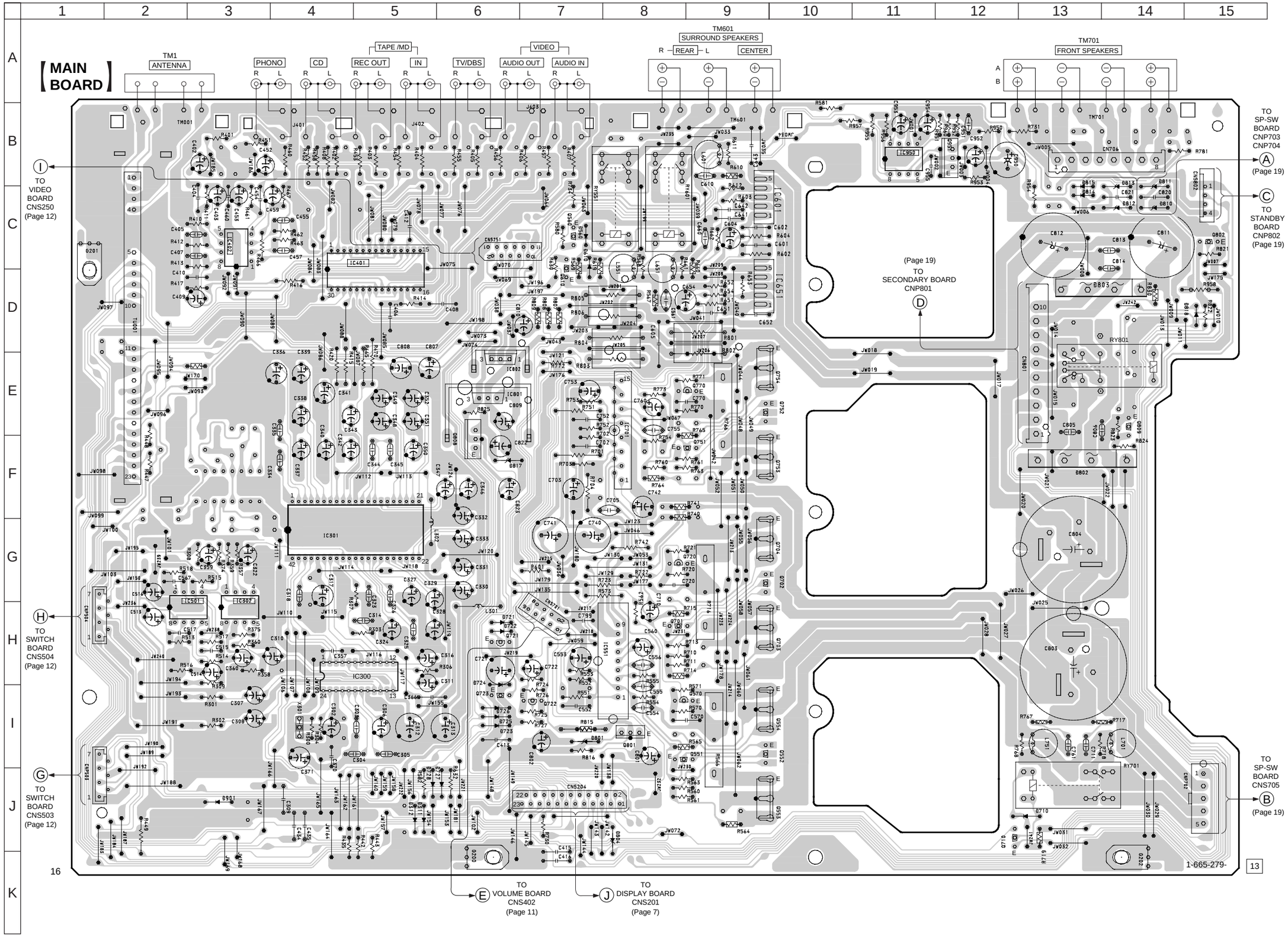
3-5. SCHEMATIC DIAGRAM — VOLUME/VIDEO SECTION — • See page 7 for KEY Board Printed Wiring Board.



3-6. PRINTED WIRING BOARD — MAIN SECTION —

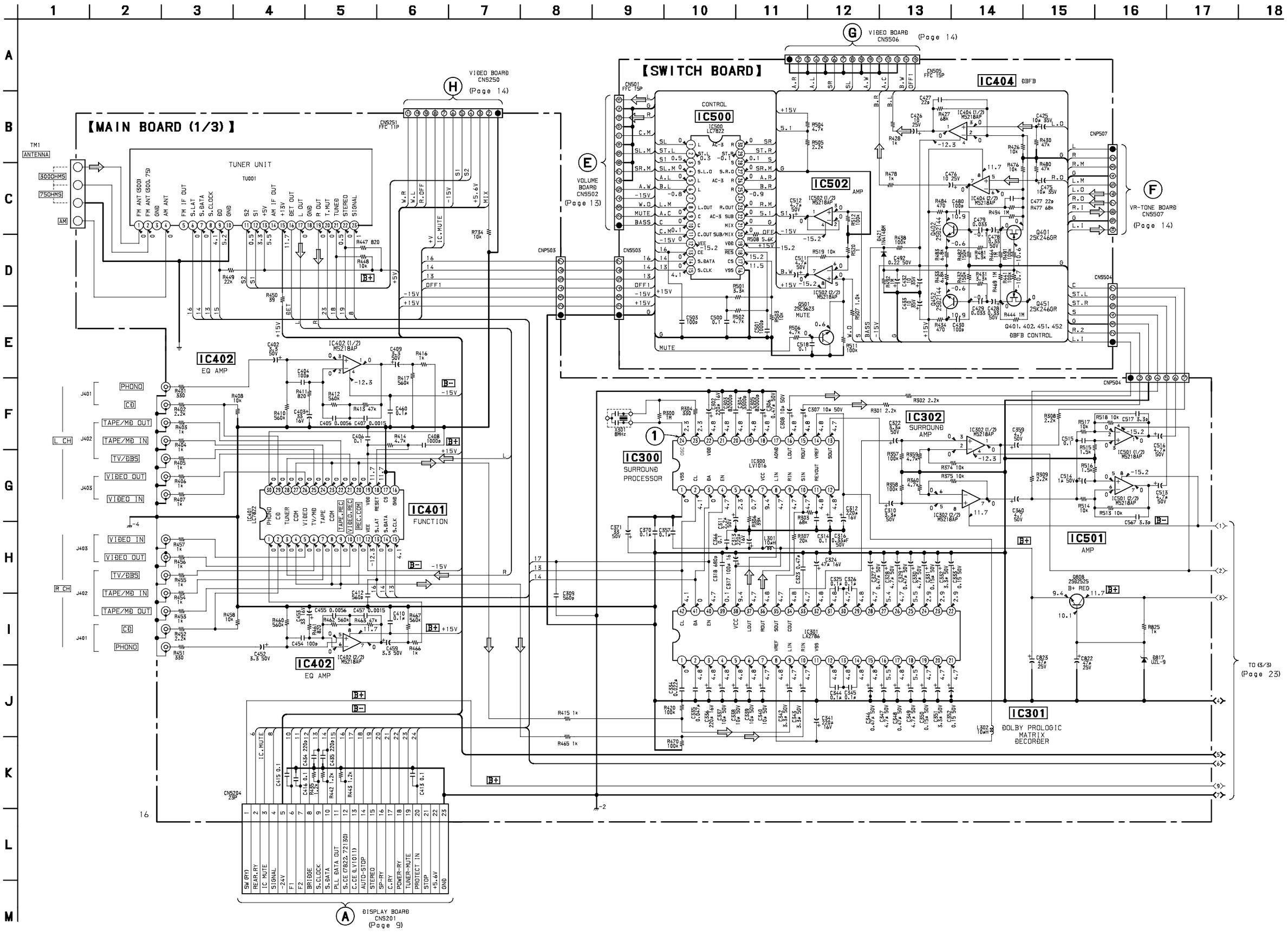
• **Semiconductor Location**

Ref. No.	Location
D311	J-5
D312	J-5
D560	C-7
D610	C-7
D710	J-13
D721	H-6
D722	H-6
D723	I-6
D724	H-6
D725	I-6
D726	I-6
D727	J-6
D728	J-5
D801	I-7
D802	F-13
D803	D-13
D804	K-8
D810	C-14
D811	C-14
D812	C-14
D813	C-14
D814	C-13
D815	C-13
D817	F-6
D818	D-15
D901	D-3
IC300	H-5
IC301	G-4
IC302	H-3
IC401	C-5
IC402	C-3
IC501	H-3
IC551	H-8
IC601	C-10
IC651	D-10
IC701	E-8
IC801	E-6
IC802	E-6
IC950	B-11
Q551	I-9
Q552	I-10
Q553	J-10
Q554	I-10
Q560	C-7
Q570	I-9
Q610	D-7
Q701	H-8
Q702	G-10
Q703	H-10
Q704	G-10
Q710	K-12
Q720	G-9
Q721	H-6
Q722	I-7
Q723	I-6
Q751	F-9
Q752	E-10
Q753	F-10
Q754	E-10
Q770	E-9
Q801	I-8
Q802	C-15
Q808	F-6
Q809	E-14
Q951	B-12

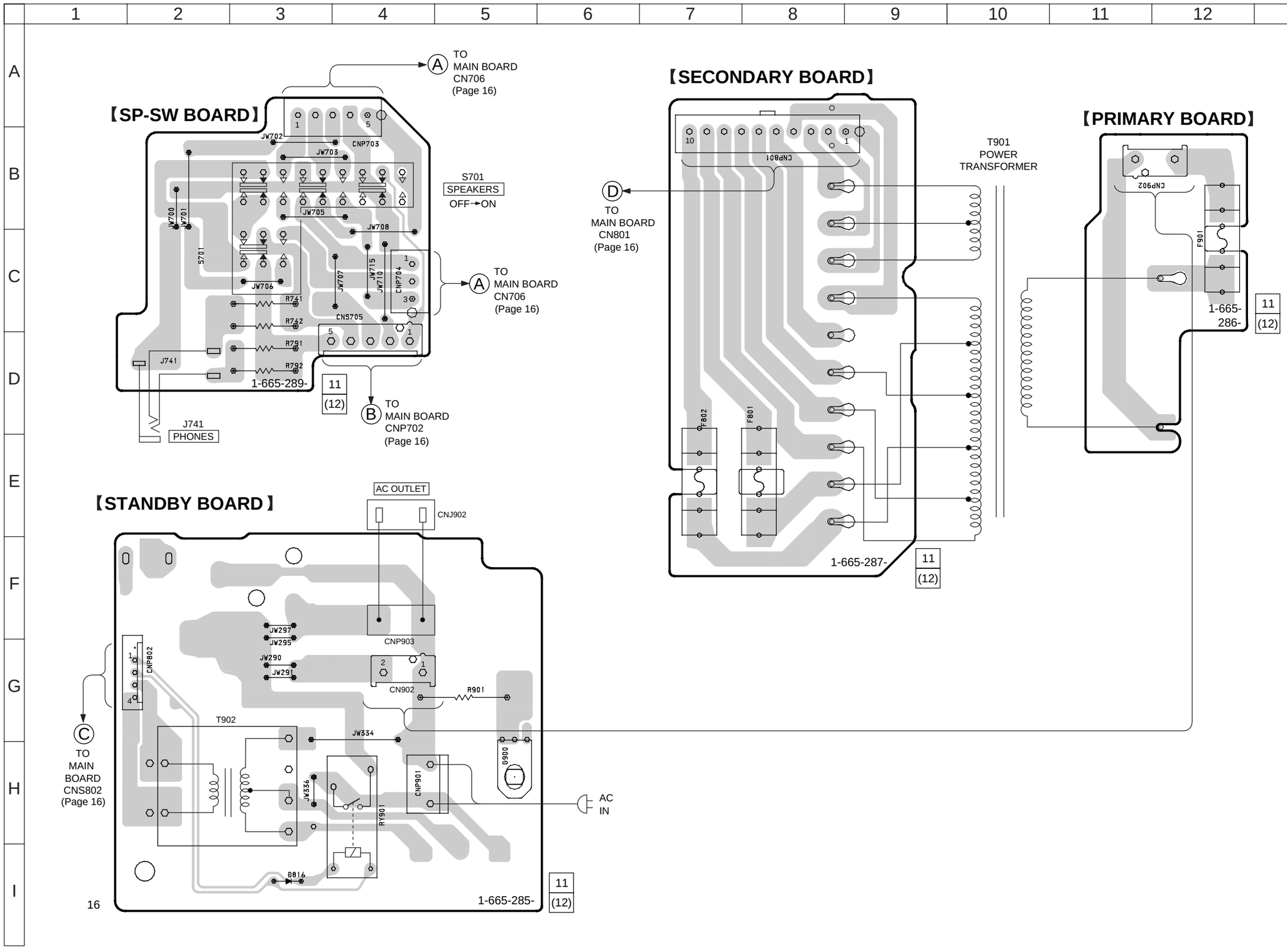


3-7. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —

• See page 6 for Waveforms. • See page 27 for IC Block Diagrams.

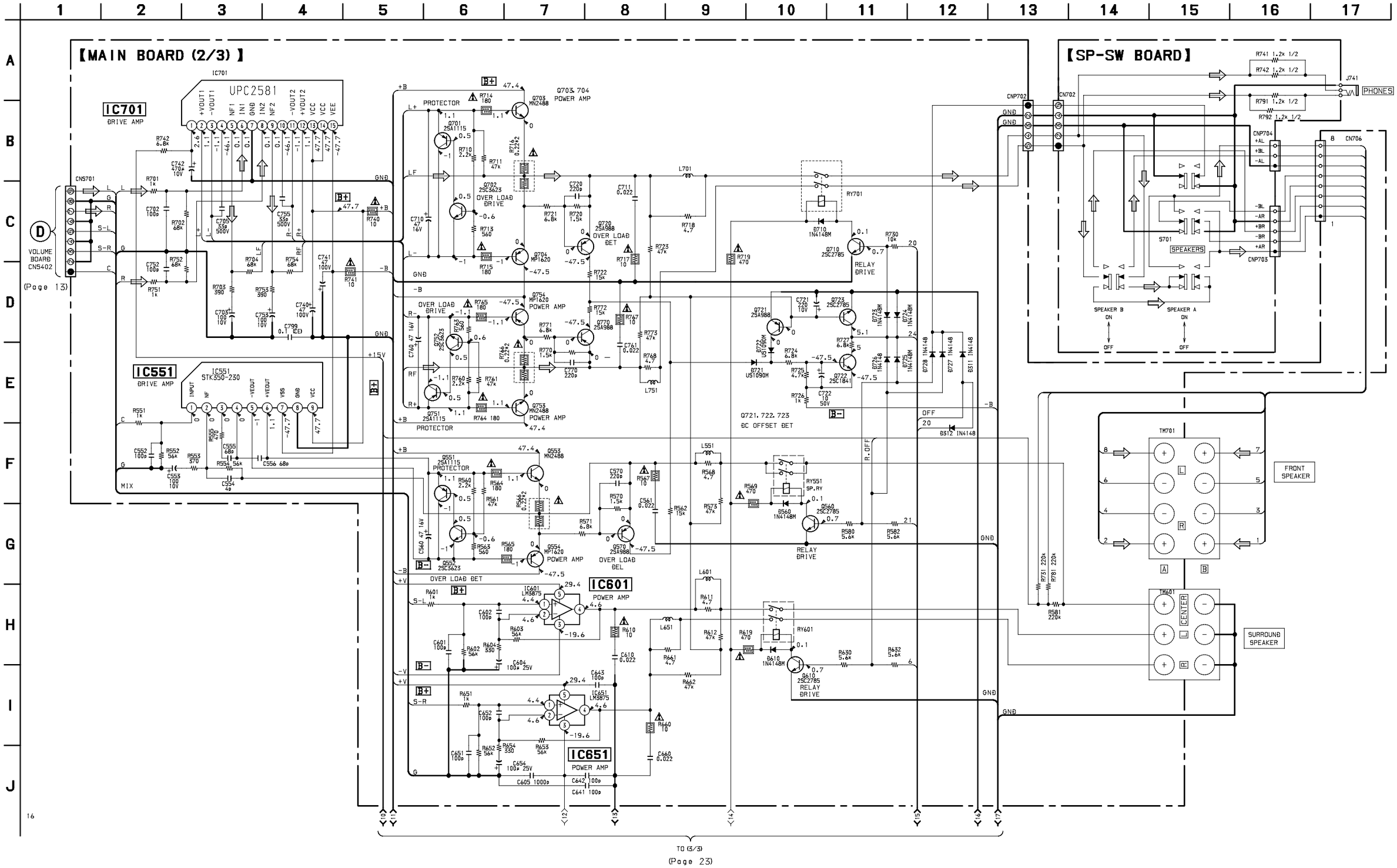


3-8. PRINTED WIRING BOARD — SP-SW, POWER SECTION —



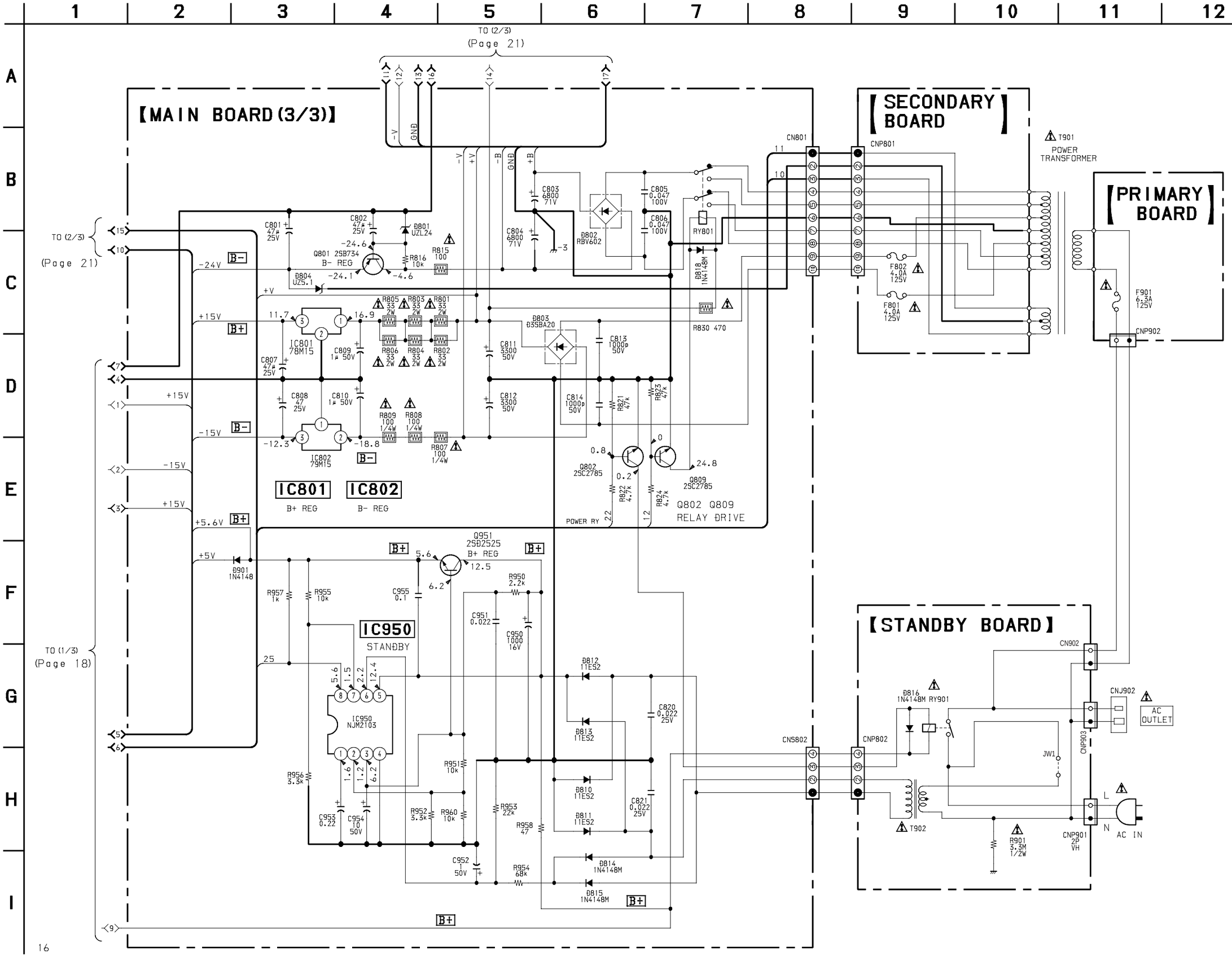
3-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/3), SP-SW —

• See page 15 for MAIN Board Printed Wiring Board. • See page 27 for IC Block Diagrams.



3-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/3), POWER —

• See page 15 for MAIN Board Printed Wiring Board. • See page 19 for SECONDARY/PRIMARY/STANDBY Board Printed Wiring Boards. • See page 27 for IC Block Diagrams.



3-11. IC PIN FUNCTION

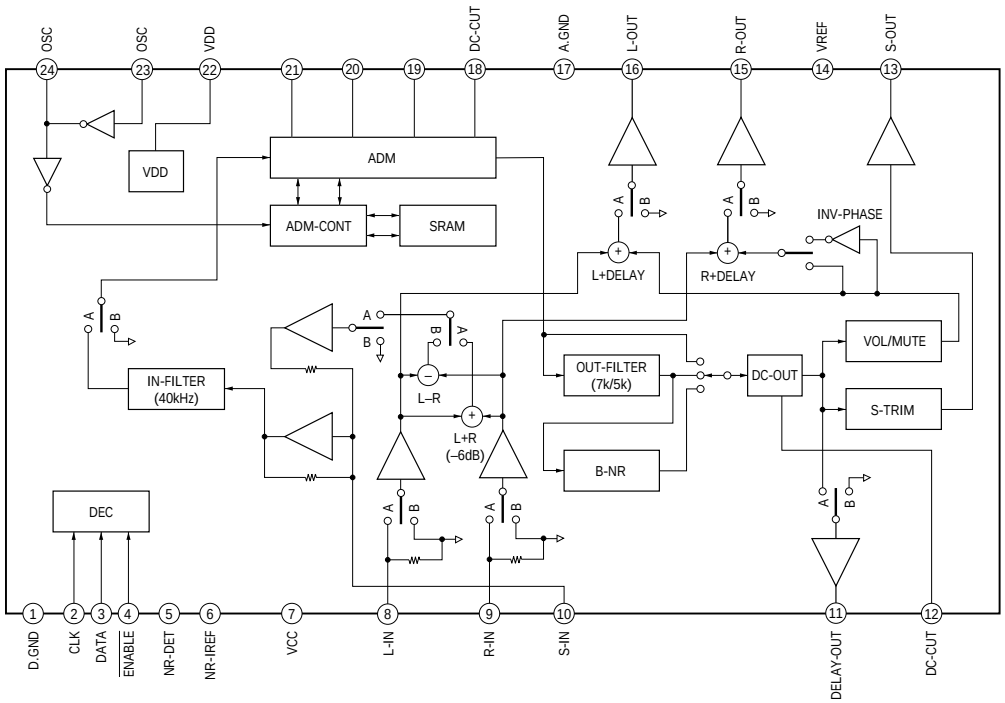
DISPLAY BOARD IC201 : μPD78044FGF-064-3B9 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply (+5V).
9	$\overline{\text{S. CLK}}$	I	System clock.
10	$\overline{\text{S. DATA}}$	I	System data.
11	$\overline{\text{PLL. DATA}}$	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	$\overline{\text{S. CE (LV100)}}$	O	Chip enablr output.
14	REARRY	I	Input for model slect.
15	BRIDGE CABLE	O	Standby relay ON/OFF control.
16	PROTECT	I	Protector detect input.
17	$\overline{\text{RESET}}$	I	System reset terminal.
18	$\overline{\text{AUTO-STOP}}$	I	Auto stop detect input.
19	$\overline{\text{STEREO-IN}}$	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	O	Surround Relay.
23	POWER-RY	O	Power relay drive.
24	Not used	—	Not used.
25	SIGNAL	I	A/D signal input terminal.
26	A/D3	I	A/D3 key input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply (+5V).
30	AV. REF	—	Reference voltage (+5V).
31	GND	—	Ground.
32	NC	—	Not used (Open).
33	Vss	—	Ground.
34	X1	—	System clock (4.19MHz).
35	X2	—	System clock (4.19MHz).
36	IC. MUTE	O	Mute drive output for μPD2581V (IC701).
37	$\overline{\text{PROLOGIC}}$	—	Plologic LED drive.
38	$\overline{\text{CSTUDIO}}$	—	CINEMA STUDIO LED drive.
39	$\overline{\text{HALL}}$	—	Hall LED drive.
40	T. MUTE	O	Tuner mute drive output.

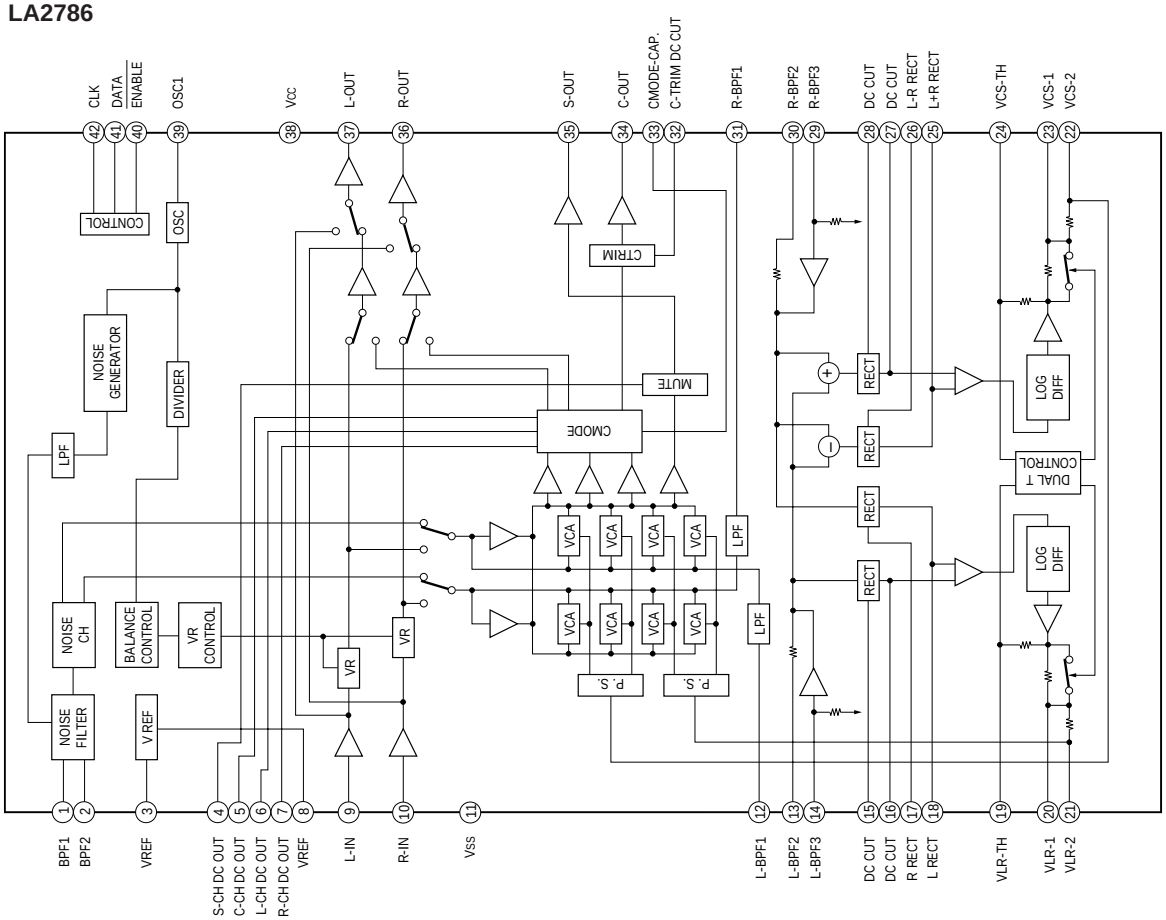
Pin No.	Pin Name	I/O	Description
41	VOLUME UP	O	Volume up.
42	VOLUME DOWN	O	Volume down.
43	$\overline{\text{STANDBY}}$	—	Standby LED drive.
44	$\overline{\text{SYS. POWER}}$	I	System power ON/OFF.
45	RDS. DATA. IN	I	RDS data input terminal (EXCEPT Australian, E, Saudi Arabia, PX model).
46	RDS. CLK. IN	I	RDS clock input terminal (EXCEPT Australian, E, Saudi Arabia, PX model).
47	$\overline{\text{STOP}}$	I	Stop signal input from NJM2103D (IC950).
48	Vss	—	Ground.
49	$\overline{\text{SIRCS}}$	I	Sircs signal input.
50	$\overline{\text{POWER SW}}$	I	Power switch input terminal.
51	5.1ch LED	O	5.1ch input LED.
52	+5V	—	Power supply (+5V).
53	BASS BOOST	—	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	SL MUTE	O	Surround Lch mute.
56	VERSION	I	Input for model select.
57	K14	I	Key in 4.
58	K13	I	Key in 3.
59	K12	I	Key in 2.
60	K11	I	Key in 1.
61	SR MUTE	O	Surround Rch mute.
62	S15	O	Key out 1.
63	S14	O	Key out 2.
64	S13	O	Key out 3.
65	S12	O	Key out 4.
66	S11	O	Fluorescent indicator tube drive.
67	S10	O	
68	S9	O	
69	S8	O	
70	S7	O	
71	VLOAD	—	Connect to –24V.
72	S6	O	Fluorescent indicator tube drive.
73	S5	O	
74	S4	O	
75	S3	O	
76	S2	O	
77	S1	O	
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

3-12. IC BLOCK DIAGRAMS

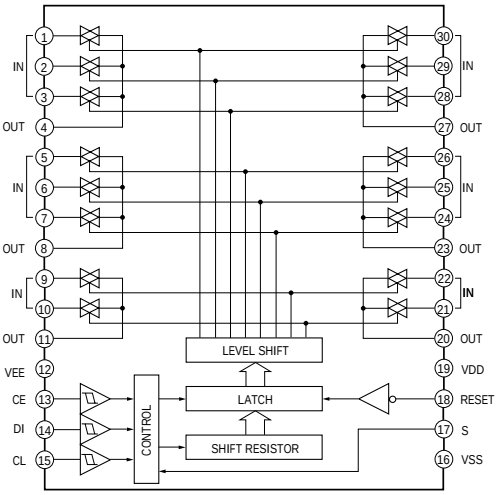
IC300 LV1016



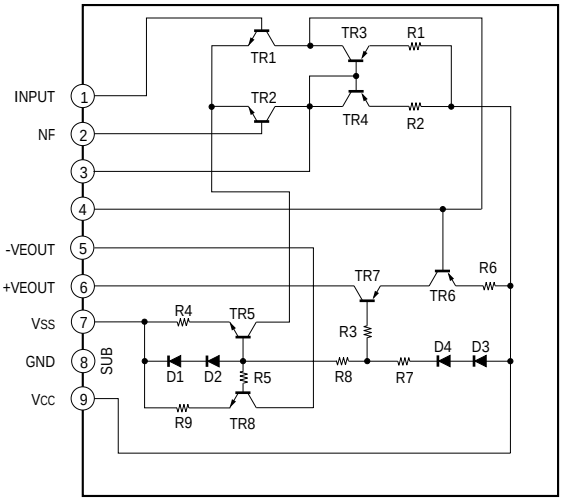
IC301 LA2786



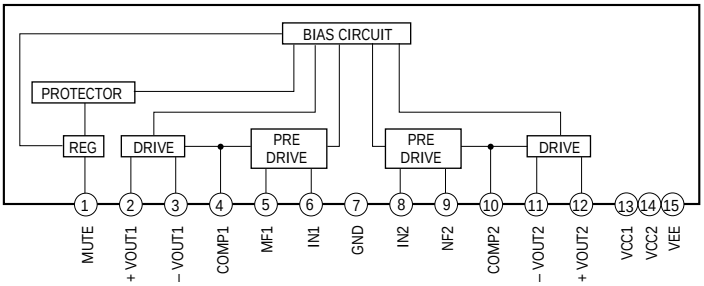
IC401 LC7822



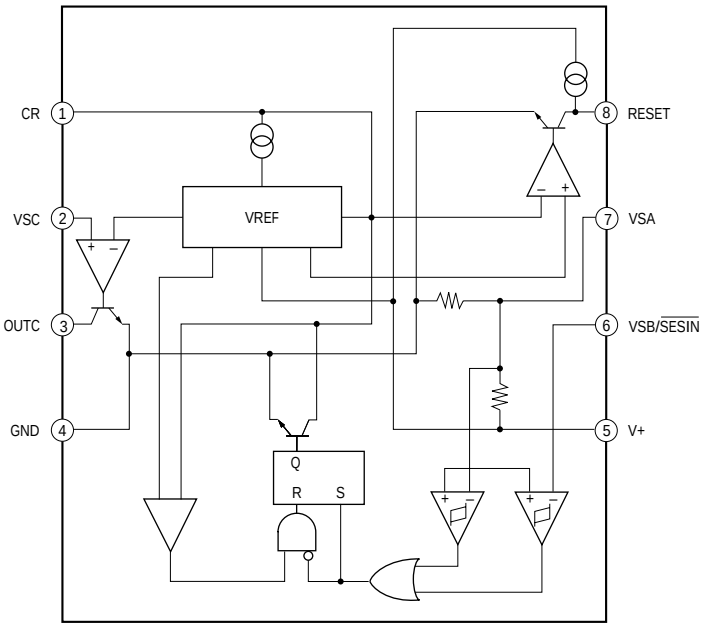
IC551 STK350-230



IC701 μPC2581V



IC950 NJM2103D



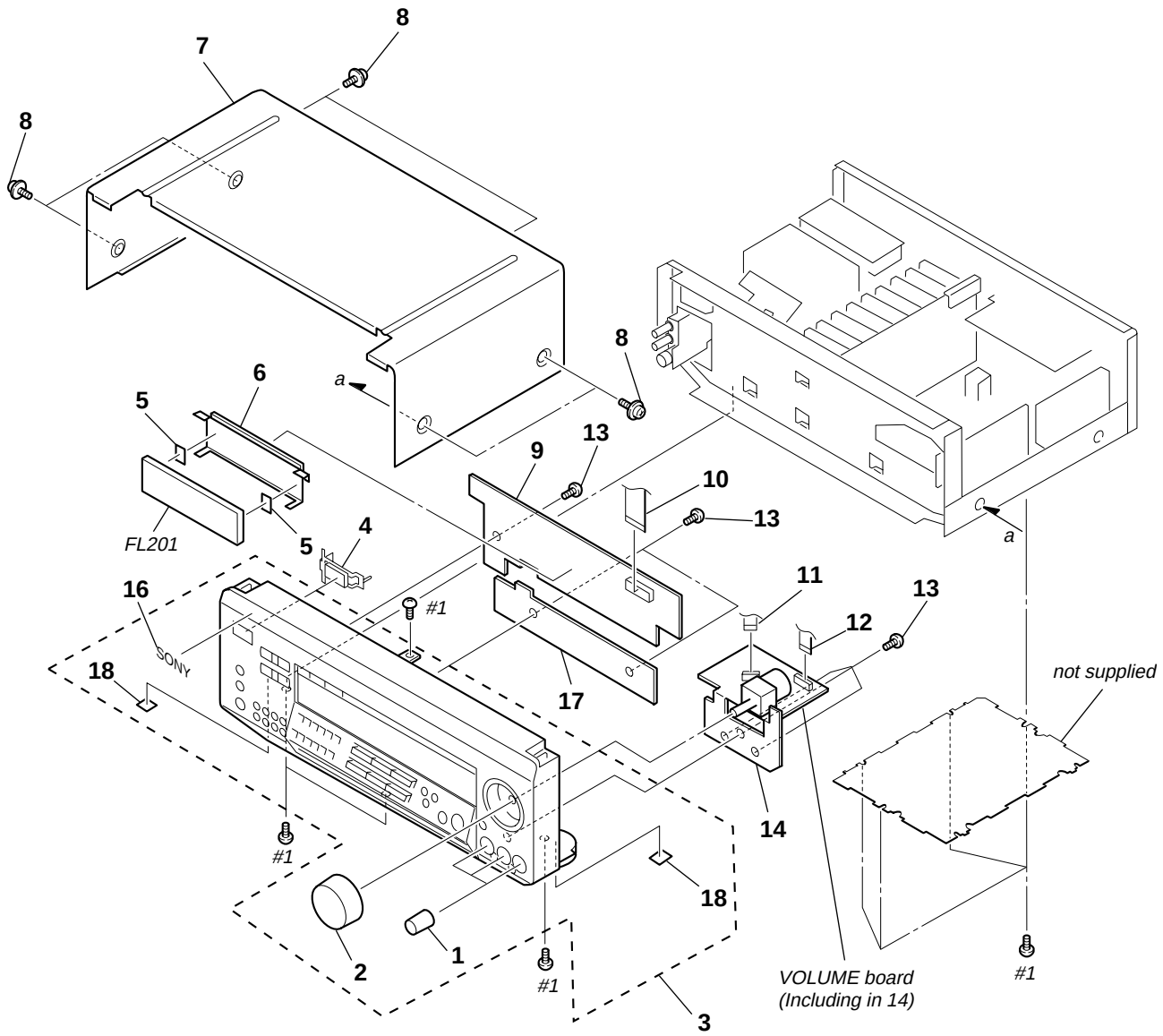
SECTION 4
EXPLODED VIEWS

Note:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

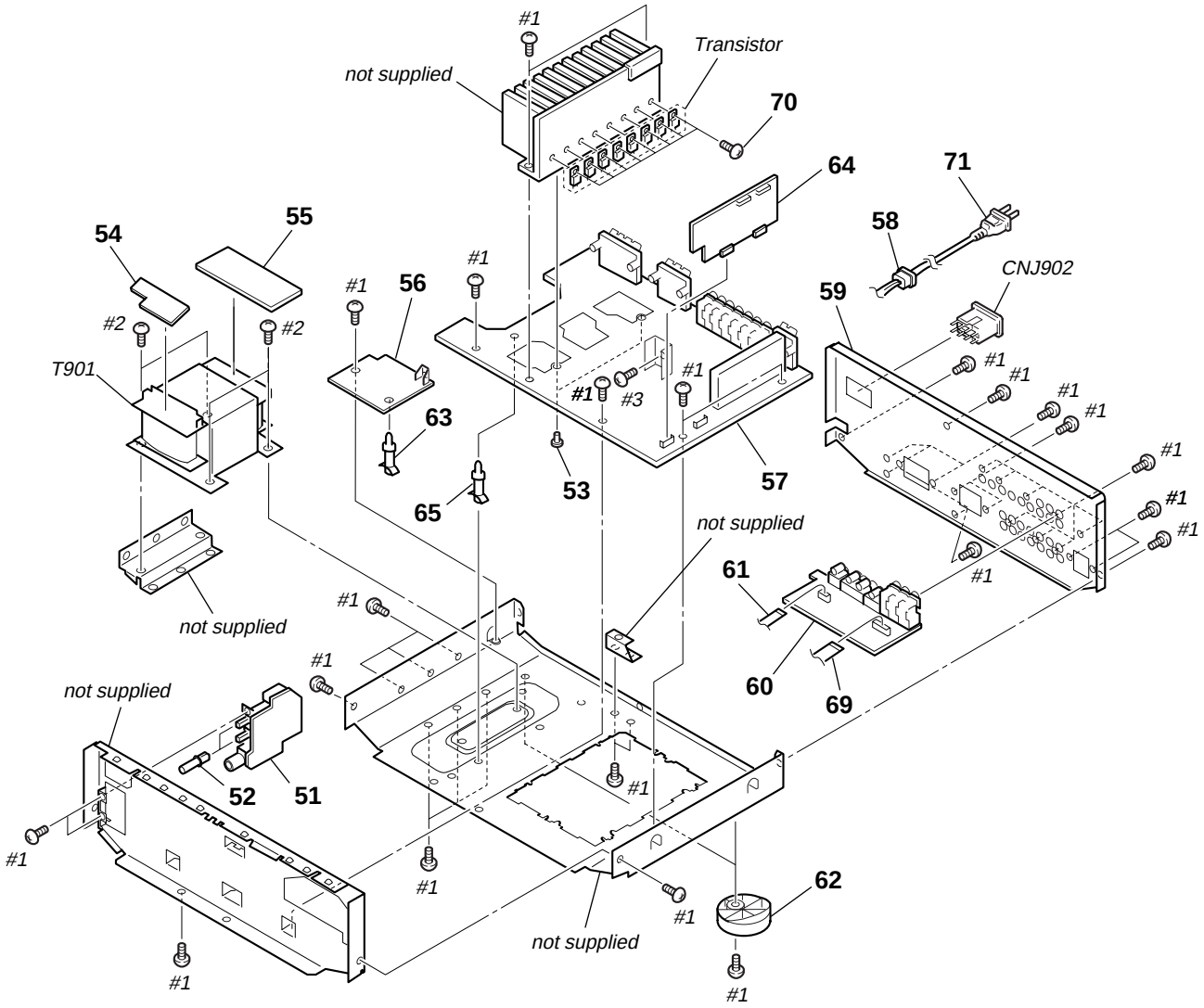
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	4-980-639-01	KNOB (R14)	
2	X-4946-873-1	KNOB (R48) ASSY	
3	X-4949-644-1	FRONT PANEL ASSY	
4	4-989-843-01	BUTTON (P-T)	
* 5	4-921-941-01	CUSHION (FL)	
* 6	4-943-107-11	HOLDER (FL TUBE)	
* 7	4-980-658-01	CASE (413226)	
8	3-710-901-11	SCREW, TAPPING	
* 9	A-4407-439-A	DISPLAY BOARD, COMPLETE	
10	1-782-100-11	WIRE (FLAT TYPE) (23 CORE)	
11	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)	
12	1-782-081-11	WIRE (FLAT TYPE) (15 CORE)	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
* 14	A-4407-441-A	VR-TONE BOARD, COMPLETE	
16	3-008-600-11	EMBLEM (5-AR), SONY	
* 17	A-4407-442-A	KEY BOARD, COMPLETE	
18	4-977-358-11	CUSHION	
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-665-289-11	SP-SW BOARD	
52	4-951-801-01	BUTTON (S)	
53	4-812-134-00	RIVET (DIA. 3.5), NYLON	
* 54	1-665-286-11	PRIMARY BOARD	
* 55	1-665-287-11	SECONDARY BOARD	
* 56	1-665-285-11	STANDBY BOARD	
* 57	A-4407-444-A	MAIN BOARD, COMPLETE	
* 58	3-703-244-00	BUSHING (2104), CORD	
* 59	4-997-684-21	BACK PANEL	
* 60	A-4407-443-A	VIDEO BOARD, COMPLETE	

Ref. No.	Part No.	Description	Remarks
61	1-782-668-11	WIRE (FLAT TYPE) (11 CORE)	
62	X-4947-208-1	FOOT ASSY (F50150S)	
63	4-924-098-01	HOLDER, PC BOARD	
* 64	A-4392-780-A	SWITCH BOARD, COMPLETE	
* 65	4-954-051-51	HOLDER, PC BOARD	
69	1-782-243-11	WIRE (FLAT TYPE) 15P	
70	3-905-609-01	SCREW (TRANSISTOR)	
⚠71	1-777-070-21	CORD, POWER	
⚠CNJ902	1-251-698-11	OUTLET (AC) (2P)	
⚠T901	1-431-267-21	TRANSFORMER, POWER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

Note:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... , uPB... , µPB... , uPC... , µPC... , uPD..., µPD...

Ref. No.	Part No.	Description			Remarks
*	A-4407-439-A	DISPLAY BOARD, COMPLETE **********			
*	4-921-941-01	CUSHION (FL)			
*	4-943-107-11	HOLDER (FL TUBE)			
		< CAPACITOR >			
C201	1-104-905-11	CAPACITOR	0.22F		5.5V
C202	1-164-159-11	CERAMIC	0.1uF		50V
C203	1-124-465-00	ELECT	0.47uF	20%	50V
C204	1-164-159-11	CERAMIC	0.1uF		50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V
C206	1-164-159-11	CERAMIC	0.1uF		50V
C207	1-126-096-11	ELECT	10uF	20%	35V
		< CONNECTOR >			
CNP205	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS201	1-568-742-11	SOCKET, CONNECTOR 23P			
CNS202	1-770-403-11	HOUSING,CONNECTOR(PC BOARD)10P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
D211	8-719-911-19	DIODE 1SS119			
D213	8-719-911-19	DIODE 1SS119			
D214	8-719-911-19	DIODE 1SS119			
D231	8-719-911-19	DIODE 1SS119			
D234	8-719-057-97	DIODE SEL5923A-TP15 (5.1/DVD)			
D235	8-719-313-50	DIODE SEL6810A-TH12 (HALL)			
D236	8-719-313-50	DIODE SEL6810A-TH12 (C.STUDIO)			
D237	8-719-313-50	DIODE SEL6810A-TH12 (PRO LOGIC)			
D239	8-719-057-97	DIODE SEL5923A-TP15 (5.1/DVD)			
D240	8-719-057-97	DIODE SEL5923A-TP15 (5.1/DVD)			
		< FILTER >			
FL201	1-517-141-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC201	8-759-479-19	IC uPD78044FGF-064-3B9			
IC202	8-759-962-08	IC BA6208			
IC203	8-759-332-18	IC GP1U27XB (REMOTE SENSOR)			
		< COIL >			
L401	1-410-509-11	INDUCTOR	10uH		

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q201	8-729-900-63	TRANSISTOR DTA124ES				
Q202	8-729-900-36	TRANSISTOR DTC124ES				
Q231	8-729-900-36	TRANSISTOR DTC124ES				
Q232	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R200	1-249-433-11	CARBON	22K	5%	1/4W	
R201	1-247-903-00	CARBON	1M	5%	1/4W	
R202	1-249-429-11	CARBON	10K	5%	1/4W	
R203	1-249-429-11	CARBON	10K	5%	1/4W	
R204	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R205	1-249-441-11	CARBON	100K	5%	1/4W	
R207	1-249-429-11	CARBON	10K	5%	1/4W	
R211	1-249-433-11	CARBON	22K	5%	1/4W	
R212	1-249-433-11	CARBON	22K	5%	1/4W	
R213	1-249-433-11	CARBON	22K	5%	1/4W	
R214	1-249-433-11	CARBON	22K	5%	1/4W	
R216	1-249-433-11	CARBON	22K	5%	1/4W	
R221	1-247-807-31	CARBON	100	5%	1/4W	
R222	1-247-807-31	CARBON	100	5%	1/4W	
R223	1-247-807-31	CARBON	100	5%	1/4W	
R224	1-247-807-31	CARBON	100	5%	1/4W	
R225	1-247-807-31	CARBON	100	5%	1/4W	
R226	1-249-441-11	CARBON	100K	5%	1/4W	
R227	1-249-441-11	CARBON	100K	5%	1/4W	
R228	1-249-412-11	CARBON	390	5%	1/4W	F
R230	1-249-410-11	CARBON	270	5%	1/4W	F
R231	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R270	1-247-807-31	CARBON	100	5%	1/4W	
R283	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R284	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R285	1-249-399-11	CARBON	33	5%	1/4W	F
R286	1-249-437-11	CARBON	47K	5%	1/4W	
R289	1-249-425-11	CARBON	4.7K	5%	1/4W	F
		< SWITCH >				
S200	1-762-378-11	SWITCH, TACTILE (POWER)				
S201	1-762-378-11	SWITCH, TACTILE (CENTER LEVEL -)				
S202	1-762-378-11	SWITCH, TACTILE (CENTER LEVEL +)				
S203	1-762-378-11	SWITCH, TACTILE (REAR LEVEL -)				
S204	1-762-378-11	SWITCH, TACTILE (REAR LEVEL +)				
S209	1-762-378-11	SWITCH, TACTILE (TUNING LEVEL -)				
S210	1-762-378-11	SWITCH, TACTILE (TUNING LEVEL +)				
S211	1-762-378-11	SWITCH, TACTILE (PRESET TUNING -)				
S212	1-762-378-11	SWITCH, TACTILE (PRESET TUNING +)				
S213	1-762-378-11	SWITCH, TACTILE (FM MODE)				

DISPLAY **KEY** **MAIN**

Ref. No.	Part No.	Description				Remarks
S214	1-762-378-11	SWITCH, TACTILE (FM)				
S215	1-762-378-11	SWITCH, TACTILE (AM)				
S216	1-762-378-11	SWITCH, TACTILE (MEMORY)				
		< VIBRATOR >				
X201	1-577-101-11	VIBRATOR, CERAMIC 4.19MHz				
**********						
*	A-4407-442-A	KEY BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
CNS205	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
		< RESISTOR >				
R232	1-249-411-11	CARBON	330	5%	1/4W	
R233	1-249-413-11	CARBON	470	5%	1/4W	F
R234	1-249-415-11	CARBON	680	5%	1/4W	F
R235	1-249-417-11	CARBON	1K	5%	1/4W	F
R236	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R237	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R238	1-247-843-11	CARBON	3.3K	5%	1/4W	
R239	1-249-411-11	CARBON	330	5%	1/4W	
R240	1-249-413-11	CARBON	470	5%	1/4W	F
R241	1-249-415-11	CARBON	680	5%	1/4W	F
R242	1-249-417-11	CARBON	1K	5%	1/4W	F
R243	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R244	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R245	1-247-843-11	CARBON	3.3K	5%	1/4W	
R246	1-249-411-11	CARBON	330	5%	1/4W	
R247	1-249-413-11	CARBON	470	5%	1/4W	F
R248	1-249-415-11	CARBON	680	5%	1/4W	F
R249	1-249-417-11	CARBON	1K	5%	1/4W	F
R280	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R281	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R282	1-247-843-11	CARBON	3.3K	5%	1/4W	
		< SWITCH >				
S217	1-762-378-11	SWITCH, TACTILE (SURROUND ON/OFF)				
S218	1-762-378-11	SWITCH, TACTILE (SET UP)				
S219	1-762-378-11	SWITCH, TACTILE (EFFECT/DELAY TIME)				
S220	1-762-378-11	SWITCH, TACTILE (TV/DBS)				
S221	1-762-378-11	SWITCH, TACTILE (TUNER)				
S222	1-762-378-11	SWITCH, TACTILE (PHONE)				
S223	1-762-378-11	SWITCH, TACTILE (VIDEO)				
S224	1-762-378-11	SWITCH, TACTILE (6)				
S225	1-762-378-11	SWITCH, TACTILE (7)				
S226	1-762-378-11	SWITCH, TACTILE (8)				
S227	1-762-378-11	SWITCH, TACTILE (9)				
S228	1-762-378-11	SWITCH, TACTILE (0)				
S229	1-762-378-11	SWITCH, TACTILE (SHIFT)				
S230	1-762-378-11	SWITCH, TACTILE (5.1/DVD INPUT)				
S231	1-762-378-11	SWITCH, TACTILE (TAPE/MD)				
S232	1-762-378-11	SWITCH, TACTILE (1)				
S233	1-762-378-11	SWITCH, TACTILE (2)				
S234	1-762-378-11	SWITCH, TACTILE (3)				
S235	1-762-378-11	SWITCH, TACTILE (4)				
S236	1-762-378-11	SWITCH, TACTILE (5)				

Ref. No.	Part No.	Description				Remarks
S237	1-762-378-11	SWITCH, TACTILE (DIRECT)				
S238	1-762-378-11	SWITCH, TACTILE (MODE)				
S239	1-762-378-11	SWITCH, TACTILE (CD)				
**********						
*	A-4407-444-A	MAIN BOARD, COMPLETE				
		**********				
	3-905-609-01	SCREW (TRANSISTOR)				
	4-812-134-00	RIVET (DIA. 3.5), NYLON				
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3				
	7-685-872-09	SCREW +BVTT 3X8 (S)				
		< CAPACITOR >				
C302	1-126-934-11	ELECT	220uF	20%	16V	
C303	1-130-494-11	MYLAR	0.082uF	5%	50V	
C304	1-137-367-11	FILM	0.0033uF	5%	50V	
C305	1-130-494-11	MYLAR	0.082uF	5%	50V	
C306	1-126-959-11	ELECT	0.47uF	20%	50V	
C307	1-126-964-11	ELECT	10uF	20%	50V	
C308	1-126-964-11	ELECT	10uF	20%	50V	
C309	1-162-291-31	CERAMIC	560PF	10%	50V	
C310	1-126-962-11	ELECT	3.3uF	20%	50V	
C311	1-126-961-11	ELECT	2.2uF	20%	50V	
C312	1-126-934-11	ELECT	220uF	20%	16V	
C313	1-126-934-11	ELECT	220uF	20%	16V	
C314	1-136-165-00	FILM	0.1uF	5%	50V	
C316	1-124-252-00	ELECT	0.33uF	20%	50V	
C317	1-126-933-11	ELECT	100uF	20%	16V	
C318	1-136-357-11	FILM	680PF	5%	50V	
C322	1-126-962-11	ELECT	3.3uF	20%	50V	
C323	1-136-173-00	FILM	0.47uF	5%	50V	
C324	1-126-967-11	ELECT	47uF	20%	16V	
C325	1-136-165-00	FILM	0.1uF	5%	50V	
C326	1-136-165-00	FILM	0.1uF	5%	50V	
C327	1-126-959-11	ELECT	0.47uF	20%	50V	
C328	1-126-963-11	ELECT	4.7uF	20%	50V	
C329	1-126-959-11	ELECT	0.47uF	20%	50V	
C330	1-126-963-11	ELECT	4.7uF	20%	50V	
C331	1-124-250-11	ELECT	0.15uF	20%	50V	
C332	1-126-962-11	ELECT	3.3uF	20%	50V	
C333	1-124-250-11	ELECT	0.15uF	20%	50V	
C334	1-137-372-11	FILM	0.022uF	5%	50V	
C335	1-136-161-00	FILM	0.047uF	5%	50V	
C336	1-126-934-11	ELECT	220uF	20%	16V	
C337	1-126-964-11	ELECT	10uF	20%	50V	
C338	1-126-964-11	ELECT	10uF	20%	50V	
C339	1-126-964-11	ELECT	10uF	20%	50V	
C340	1-126-964-11	ELECT	10uF	20%	50V	
C341	1-126-934-11	ELECT	220uF	20%	16V	
C342	1-126-962-11	ELECT	3.3uF	20%	50V	
C343	1-126-962-11	ELECT	3.3uF	20%	50V	
C344	1-136-165-00	FILM	0.1uF	5%	50V	
C345	1-136-165-00	FILM	0.1uF	5%	50V	
C346	1-126-959-11	ELECT	0.47uF	20%	50V	
C347	1-126-963-11	ELECT	4.7uF	20%	50V	
C348	1-126-959-11	ELECT	0.47uF	20%	50V	
C349	1-126-963-11	ELECT	4.7uF	20%	50V	
C350	1-124-250-11	ELECT	0.15uF	20%	50V	

Ref. No.	Part No.	Description			Remarks
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-11	ELECT	0.15uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C359	1-126-963-11	ELECT	4.7uF	20%	50V
C360	1-126-963-11	ELECT	4.7uF	20%	50V
C366	1-164-159-11	CERAMIC	0.1uF		50V
C370	1-164-159-11	CERAMIC	0.1uF		50V
C371	1-126-966-11	ELECT	33uF	20%	16V
C402	1-126-963-11	ELECT	4.7uF	20%	50V
C403	1-126-964-11	ELECT	10uF	20%	50V
C404	1-162-282-31	CERAMIC	100PF	10%	50V
C405	1-137-459-11	FILM	0.0056uF	5%	100V
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-960-11	ELECT	1uF	20%	50V
C410	1-164-159-11	CERAMIC	0.1uF		50V
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C452	1-126-963-11	ELECT	4.7uF	20%	50V
C453	1-126-964-11	ELECT	10uF	20%	50V
C454	1-162-282-31	CERAMIC	100PF	10%	50V
C455	1-137-459-11	FILM	0.0056uF	5%	100V
C457	1-137-365-11	FILM	0.0015uF	5%	50V
C459	1-126-960-11	ELECT	1uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C513	1-126-963-11	ELECT	4.7uF	20%	50V
C514	1-126-960-11	ELECT	1uF	20%	50V
C515	1-164-159-11	CERAMIC	0.1uF		50V
C516	1-126-963-11	ELECT	4.7uF	20%	50V
C517	1-162-193-31	CERAMIC	3.3PF	10%	50V
C552	1-162-282-31	CERAMIC	100PF	10%	50V
C553	1-104-665-11	ELECT	100uF	20%	10V
C554	1-102-937-00	CERAMIC	4.0PF	+-0.25PF	50V
C555	1-102-989-00	CERAMIC	68PF	5%	500V
C556	1-102-989-00	CERAMIC	68PF	5%	500V
C560	1-126-967-11	ELECT	47uF	20%	16V
C561	1-137-372-11	FILM	0.022uF	5%	50V
C567	1-162-193-31	CERAMIC	3.3PF	10%	50V
C570	1-162-286-31	CERAMIC	220PF	10%	50V
C601	1-162-282-31	CERAMIC	100PF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-104-665-11	ELECT	100uF	20%	16V
C605	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-137-372-11	FILM	0.022uF	5%	50V
C641	1-162-282-31	CERAMIC	100PF	10%	50V
C642	1-162-282-31	CERAMIC	100PF	10%	50V
C643	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-162-282-31	CERAMIC	100PF	10%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-104-665-11	ELECT	100uF	20%	16V
C660	1-137-372-11	FILM	0.022uF	5%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-104-665-11	ELECT	100uF	20%	10V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-126-967-11	ELECT	47uF	20%	16V

Ref. No.	Part No.	Description			Remarks
C711	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-162-286-31	CERAMIC	220PF	10%	50V
C721	1-126-934-11	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C740	1-128-562-11	ELECT	47uF	20%	100V
C741	1-128-562-11	ELECT	47uF	20%	100V
C742	1-126-925-11	ELECT	470uF	20%	10V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-104-665-11	ELECT	100uF	20%	10V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-126-967-11	ELECT	47uF	20%	16V
C761	1-137-372-11	FILM	0.022uF	5%	50V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C799	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C802	1-104-664-11	ELECT	47uF	20%	25V
C803	1-104-595-11	ELECT(BLOCK)	6800uF	20%	71V
C804	1-104-595-11	ELECT(BLOCK)	6800uF	20%	71V
C805	1-137-420-11	FILM	0.047uF	10%	100V
C806	1-137-420-11	FILM	0.047uF	10%	100V
C807	1-104-664-11	ELECT	47uF	20%	25V
C808	1-104-664-11	ELECT	47uF	20%	25V
C809	1-126-960-11	ELECT	1uF	20%	50V
C810	1-126-960-11	ELECT	1uF	20%	50V
C811	1-126-974-11	ELECT	3300uF	20%	50V
C812	1-126-974-11	ELECT	3300uF	20%	50V
C813	1-101-001-00	CERAMIC	0.001uF		50V
C814	1-101-001-00	CERAMIC	0.001uF		50V
C820	1-161-494-00	CERAMIC	0.022uF		25V
C821	1-161-494-00	CERAMIC	0.022uF		25V
C822	1-104-664-11	ELECT	47uF	20%	25V
C823	1-104-664-11	ELECT	47uF	20%	25V
C950	1-126-767-11	ELECT	1000uF	20%	16V
C951	1-164-097-11	CERAMIC	0.022uF		50V
C952	1-126-960-11	ELECT	1uF	20%	50V
C953	1-124-464-11	ELECT	0.22uF	20%	50V
C954	1-126-795-11	ELECT	10uF	20%	50V
C955	1-164-159-11	CERAMIC	0.1uF		50V

< CONNECTOR >

CNP503	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P
CNP504	1-695-087-11	PIN, CONNECTOR (PC BOARD) 7P
CNP702	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P
CNS204	1-568-742-11	SOCKET, CONNECTOR 23P
CNS251	1-569-060-11	SOCKET, CONNECTOR 11P
CNS701	1-568-442-11	SOCKET, CONNECTOR 9P
CNS802	1-770-480-11	SOCKET, CONNECTOR PIN 4P

< DIODE >

D311	8-719-911-19	DIODE 1SS119
D312	8-719-911-19	DIODE 1SS119
D560	8-719-911-19	DIODE 1SS119
D610	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D721	8-719-911-19	DIODE 1SS119
D722	8-719-911-19	DIODE 1SS119
D723	8-719-911-19	DIODE 1SS119
D724	8-719-911-19	DIODE 1SS119
D725	8-719-911-19	DIODE 1SS119

MAIN

Ref. No.	Part No.	Description	Remarks
D726	8-719-911-19	DIODE 1SS119	
D727	8-719-911-19	DIODE 1SS119	
D728	8-719-911-19	DIODE 1SS119	
D801	8-719-986-54	DIODE HZS24-1LTA	
D802	8-719-302-38	DIODE RBV-602-01	
D803	8-719-028-23	DIODE D3SBA20-4101	
D804	8-719-109-85	DIODE RD5.1ES-B2	
D810	8-719-024-99	DIODE 11ES2-NTA2B	
D811	8-719-024-99	DIODE 11ES2-NTA2B	
D812	8-719-024-99	DIODE 11ES2-NTA2B	
D813	8-719-024-99	DIODE 11ES2-NTA2B	
D814	8-719-911-19	DIODE 1SS119	
D815	8-719-911-19	DIODE 1SS119	
D817	8-719-936-61	DIODE GL-9HY35	
D818	8-719-911-19	DIODE 1SS119	
D901	8-719-911-19	DIODE 1SS119	
		< EARTH >	
* G200	1-537-738-21	TERMINAL, EARTH	
* G201	1-537-738-21	TERMINAL, EARTH	
* G202	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC300	8-759-442-97	IC LV1016	
IC301	8-759-442-96	IC LA2786	
IC302	8-759-636-74	IC M5218AP-22	
IC401	8-759-805-14	IC LC7822	
IC402	8-759-636-74	IC M5218AP-22	
IC501	8-759-636-74	IC M5218AP-22	
IC551	8-749-011-16	IC STK350-230	
IC601	8-759-085-89	IC LM3875-S	
IC651	8-759-085-89	IC LM3875-S	
IC701	8-759-326-52	IC uPC2581V	
IC801	8-759-604-40	IC M5F78M15	
IC802	8-759-604-46	IC M5F79M15	
IC950	8-759-333-83	IC NJM2103D	
		< JACK >	
J401	1-770-614-11	JACK, PIN 4P (PHONO/CD)	
J402	1-580-825-11	JACK, PIN 6P (TAPE/MD,TV DBS AUDIO IN)	
J403	1-770-613-11	JACK, PIN 4P (VIDEO)	
		< COIL >	
L301	1-410-509-11	INDUCTOR 10uH	
L302	1-410-509-11	INDUCTOR 10uH	
L551	1-420-872-00	COIL, AIR-CORE	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< TRANSISTOR >	
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q553	8-749-010-25	IC MN2488-OPY-M	
Q554	8-749-010-26	IC MP1620-OPY-M	
Q560	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q570	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q610	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q710	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q720	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q721	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q722	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q723	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MP1620-OPY-M	
Q770	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	
Q802	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q808	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q808	8-729-209-15	TRANSISTOR 2SD2012	
Q809	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q951	8-729-026-68	TRANSISTOR 2SD2525(TP)	
Q951	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R300	1-247-903-00	CARBON 1M 5% 1/4W	
R301	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R302	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R303	1-249-439-11	CARBON 68K 5% 1/4W	
R304	1-249-411-11	CARBON 330 5% 1/4W	
R306	1-249-436-11	CARBON 39K 5% 1/4W	
R307	1-247-862-11	CARBON 20K 5% 1/4W	
R308	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R309	1-249-421-11	CARBON 2.2K 5% 1/4W	F
R357	1-249-441-11	CARBON 100K 5% 1/4W	
R358	1-249-441-11	CARBON 100K 5% 1/4W	
R359	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R360	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R374	1-249-429-11	CARBON 10K 5% 1/4W	
R375	1-249-429-11	CARBON 10K 5% 1/4W	
R401	1-249-417-11	CARBON 1K 5% 1/4W	F
R402	1-247-843-11	CARBON 3.3K 5% 1/4W	
R403	1-249-417-11	CARBON 1K 5% 1/4W	F
R404	1-249-417-11	CARBON 1K 5% 1/4W	F
R405	1-249-417-11	CARBON 1K 5% 1/4W	F
R406	1-249-417-11	CARBON 1K 5% 1/4W	F
R407	1-249-417-11	CARBON 1K 5% 1/4W	F
R408	1-249-426-11	CARBON 5.6K 5% 1/4W	
R410	1-249-437-11	CARBON 47K 5% 1/4W	
R411	1-249-415-11	CARBON 680 5% 1/4W	F
R412	1-247-897-11	CARBON 560K 5% 1/4W	
R413	1-249-437-11	CARBON 47K 5% 1/4W	
R414	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R415	1-249-417-11	CARBON 1K 5% 1/4W	F
R416	1-249-409-11	CARBON 220 5% 1/4W	F
R417	1-249-441-11	CARBON 100K 5% 1/4W	
R420	1-249-441-11	CARBON 100K 5% 1/4W	
R435	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R442	1-249-418-11	CARBON 1.2K 5% 1/4W	F
R443	1-249-418-11	CARBON 1.2K 5% 1/4W	F

Ref. No.	Part No.	Description			Remarks
R447	1-249-416-11	CARBON	820	5%	1/4W F
R448	1-249-429-11	CARBON	10K	5%	1/4W
R449	1-249-433-11	CARBON	22K	5%	1/4W
R450	1-249-400-11	CARBON	39	5%	1/4W F
R451	1-249-417-11	CARBON	1K	5%	1/4W F
R452	1-247-843-11	CARBON	3.3K	5%	1/4W
R453	1-249-417-11	CARBON	1K	5%	1/4W F
R454	1-249-417-11	CARBON	1K	5%	1/4W F
R455	1-249-417-11	CARBON	1K	5%	1/4W F
R456	1-249-417-11	CARBON	1K	5%	1/4W F
R457	1-249-417-11	CARBON	1K	5%	1/4W F
R458	1-249-426-11	CARBON	5.6K	5%	1/4W
R460	1-249-437-11	CARBON	47K	5%	1/4W
R461	1-249-415-11	CARBON	680	5%	1/4W F
R462	1-247-897-11	CARBON	560K	5%	1/4W
R463	1-249-437-11	CARBON	47K	5%	1/4W
R465	1-249-417-11	CARBON	1K	5%	1/4W F
R466	1-249-409-11	CARBON	220	5%	1/4W F
R467	1-249-441-11	CARBON	100K	5%	1/4W
R470	1-249-441-11	CARBON	100K	5%	1/4W
R513	1-249-429-11	CARBON	10K	5%	1/4W
R514	1-249-429-11	CARBON	10K	5%	1/4W
R515	1-249-419-11	CARBON	1.5K	5%	1/4W F
R516	1-249-419-11	CARBON	1.5K	5%	1/4W F
R517	1-249-429-11	CARBON	10K	5%	1/4W
R518	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-417-11	CARBON	1K	5%	1/4W F
R552	1-249-438-11	CARBON	56K	5%	1/4W
R553	1-249-413-11	CARBON	470	5%	1/4W F
R554	1-249-438-11	CARBON	56K	5%	1/4W
R555	1-249-413-11	CARBON	470	5%	1/4W F
R560	1-249-421-11	CARBON	2.2K	5%	1/4W F
R561	1-249-440-11	CARBON	82K	5%	1/4W
R562	1-249-431-11	CARBON	15K	5%	1/4W
R563	1-249-414-11	CARBON	560	5%	1/4W F
⚠R564	1-249-408-11	CARBON	180	5%	1/4W F
⚠R565	1-249-408-11	CARBON	180	5%	1/4W F
⚠R566	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R567	1-249-393-11	CARBON	10	5%	1/4W F
R568	1-249-389-11	CARBON	4.7	5%	1/4W F
⚠R569	1-249-413-11	CARBON	470	5%	1/4W F
R570	1-249-419-11	CARBON	1.5K	5%	1/4W F
R571	1-249-427-11	CARBON	6.8K	5%	1/4W F
R573	1-249-437-11	CARBON	47K	5%	1/4W
R580	1-249-426-11	CARBON	5.6K	5%	1/4W
R581	1-247-887-00	CARBON	220K	5%	1/4W
R582	1-249-426-11	CARBON	5.6K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-438-11	CARBON	56K	5%	1/4W
R603	1-249-438-11	CARBON	56K	5%	1/4W
R604	1-249-413-11	CARBON	470	5%	1/4W F
⚠R610	1-249-393-11	CARBON	10	5%	1/4W F
R611	1-249-389-11	CARBON	4.7	5%	1/4W F
R612	1-249-437-11	CARBON	47K	5%	1/4W
⚠R619	1-249-413-11	CARBON	470	5%	1/4W F
R630	1-249-426-11	CARBON	5.6K	5%	1/4W
R632	1-249-426-11	CARBON	5.6K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-438-11	CARBON	56K	5%	1/4W
R653	1-249-438-11	CARBON	56K	5%	1/4W
R654	1-249-413-11	CARBON	470	5%	1/4W F
⚠R660	1-249-393-11	CARBON	10	5%	1/4W F
R661	1-249-389-11	CARBON	4.7	5%	1/4W F
R662	1-249-437-11	CARBON	47K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-414-11	CARBON	560	5%	1/4W F
R704	1-249-439-11	CARBON	68K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W F
⚠R714	1-249-408-11	CARBON	180	5%	1/4W F
⚠R715	1-249-408-11	CARBON	180	5%	1/4W F
⚠R716	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W F
R718	1-249-389-11	CARBON	4.7	5%	1/4W F
⚠R719	1-249-413-11	CARBON	470	5%	1/4W F
R720	1-249-419-11	CARBON	1.5K	5%	1/4W F
R721	1-249-427-11	CARBON	6.8K	5%	1/4W F
R722	1-249-431-11	CARBON	15K	5%	1/4W
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W F
R725	1-249-427-11	CARBON	6.8K	5%	1/4W F
R726	1-249-417-11	CARBON	1K	5%	1/4W F
R727	1-249-427-11	CARBON	6.8K	5%	1/4W F
R730	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-247-887-00	CARBON	220K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
⚠R740	1-249-393-11	CARBON	10	5%	1/4W F
⚠R741	1-249-393-11	CARBON	10	5%	1/4W F
R742	1-249-427-11	CARBON	6.8K	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-414-11	CARBON	560	5%	1/4W F
R754	1-249-439-11	CARBON	68K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W F
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W F
⚠R764	1-249-408-11	CARBON	180	5%	1/4W F
⚠R765	1-249-408-11	CARBON	180	5%	1/4W F
⚠R766	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W F
R768	1-249-389-11	CARBON	4.7	5%	1/4W F
R770	1-249-419-11	CARBON	1.5K	5%	1/4W F
R771	1-249-427-11	CARBON	6.8K	5%	1/4W F
R772	1-249-431-11	CARBON	15K	5%	1/4W
R773	1-249-437-11	CARBON	47K	5%	1/4W
R781	1-247-887-00	CARBON	220K	5%	1/4W
⚠R801	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R802	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R803	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R804	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R805	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R806	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R807	1-249-405-11	CARBON	100	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN **PRIMARY** **SECONDARY** **SP-SW** **STANDBY**

Ref. No.	Part No.	Description			Remarks
⚠R808	1-249-405-11	CARBON	100	5%	1/4W F
⚠R809	1-249-405-11	CARBON	100	5%	1/4W F
⚠R815	1-247-739-11	CARBON	100	5%	1/2W F
R816	1-249-425-11	CARBON	4.7K	5%	1/4W F
R821	1-249-437-11	CARBON	47K	5%	1/4W
R822	1-249-425-11	CARBON	4.7K	5%	1/4W F
R823	1-249-437-11	CARBON	47K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W F
R825	1-249-417-11	CARBON	1K	5%	1/4W F
⚠R830	1-249-413-11	CARBON	470	5%	1/4W F
R950	1-249-421-11	CARBON	2.2K	5%	1/4W F
R951	1-249-429-11	CARBON	10K	5%	1/4W
R952	1-247-843-11	CARBON	3.3K	5%	1/4W
R953	1-249-433-11	CARBON	22K	5%	1/4W
R954	1-249-439-11	CARBON	68K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-247-843-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W F
R958	1-249-401-11	CARBON	47	5%	1/4W F
R960	1-249-429-11	CARBON	10K	5%	1/4W
		< RELAY >			
RY551	1-515-920-11	RELAY (24V)			
RY601	1-515-920-11	RELAY (24V)			
RY701	1-515-920-11	RELAY (24V)			
RY801	1-515-894-11	RELAY			
		< TERMINAL >			
TM1	1-537-240-51	TERMINAL BOARD (CHECKER PIN)			
TM601	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P)			
TM701	1-537-376-11	TERMINAL BOARD (SP)			
		< TUNER >			
TU001	1-233-593-11	ENCAPSULATED COMPONENT			
		< VIBRATOR >			
X301	1-579-952-11	VIBRATOR, CERAMIC 8MHz			
**********					
*	1-665-286-11	PRIMARY BOARD			
		**********			
		< FUSE >			
⚠F901	1-533-310-11	FUSE, GLASS TUBE 6.3A 125V			
		< HOLDER >			
FH901	1-533-233-21	HOLDER, FUSE			
FH951	1-533-233-21	HOLDER, FUSE			
**********					
*	1-665-287-11	SECONDARY BOARD			
		**********			
		< CONNECTOR >			
CNP801	1-764-479-11	PIN, CONNECTOR (PC BOARD) 10P			
		< FUSE >			
⚠F801	1-576-108-11	FUSE 4A 125V			
⚠F802	1-576-108-11	FUSE 4A 125V			

Ref. No.	Part No.	Description			Remarks
		< HOLDER >			
FH801	1-533-233-21	HOLDER, FUSE			
FH802	1-533-233-21	HOLDER, FUSE			
FH851	1-533-233-21	HOLDER, FUSE			
FH852	1-533-233-21	HOLDER, FUSE			
**********					
*	1-665-289-11	SP-SW BOARD			
		**********			
		< CONNECTOR >			
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P			
		< JACK >			
J741	1-750-731-11	JACK (LARGE TYPE) (PHONES)			
		< RESISTOR >			
R741	1-247-753-11	CARBON	1.2K	5%	1/2W
R742	1-247-753-11	CARBON	1.2K	5%	1/2W
R791	1-247-753-11	CARBON	1.2K	5%	1/2W
R792	1-247-753-11	CARBON	1.2K	5%	1/2W
		< SWITCH >			
S701	1-762-319-11	SWITCH, PUSH (2 KEY)(SPEAKERS)			
**********					
*	1-665-285-11	STANDBY BOARD			
		**********			
		< CONNECTOR >			
CNP802	1-779-495-11	PLUG, CONNECTOR PIN 4P			
CNP901	1-564-321-00	PIN, CONNECTOR 2P			
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D816	8-719-911-19	DIODE 1SS119			
		< EARTH >			
* G900	1-537-738-21	TERMINAL, EARTH			
		< RESISTOR >			
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W
		< RELAY >			
⚠RY901	1-755-018-11	RELAY			
		< TRANSFORMER >			
⚠T902	1-450-361-11	TRANSFORMER, POWER			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remarks
*	A-4392-780-A	SWITCH BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C425	1-126-795-11	ELECT	10uF	20%	25V	
C426	1-126-795-11	ELECT	10uF	20%	25V	
C427	1-162-207-31	CERAMIC	22PF	5%	50V	
C428	1-124-252-00	ELECT	0.33uF	20%	50V	
C429	1-130-489-00	MYLAR	0.033uF	5%	50V	
C430	1-102-973-00	CERAMIC	100PF	5%	50V	
C432	1-126-795-11	ELECT	10uF	20%	25V	
C433	1-126-795-11	ELECT	10uF	20%	25V	
C475	1-126-795-11	ELECT	10uF	20%	25V	
C476	1-126-795-11	ELECT	10uF	20%	25V	
C477	1-162-207-31	CERAMIC	22PF	5%	50V	
C478	1-124-252-00	ELECT	0.33uF	20%	50V	
C479	1-130-489-00	MYLAR	0.033uF	5%	50V	
C480	1-102-973-00	CERAMIC	100PF	5%	50V	
C492	1-124-464-11	ELECT	0.22uF	20%	50V	
C500	1-164-159-11	CERAMIC	0.1uF		50V	
C501	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C503	1-162-282-31	CERAMIC	100PF	10%	50V	
C511	1-126-163-11	ELECT	4.7uF	20%	50V	
C512	1-126-163-11	ELECT	4.7uF	20%	50V	
C518	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
* CN501	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P				
* CN505	1-569-306-11	SOCKET, CONNECTOR (L TYRE) 15P				
* CNP507	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P				
CNS503	1-695-092-11	SOCKET, CONNECTOR 7P				
CNS504	1-695-092-11	SOCKET, CONNECTOR 7P				
		< DIODE >				
D421	8-719-911-19	DIODE 1SS119				
		< IC >				
IC404	8-759-636-74	IC M5218AP-22				
IC500	8-759-805-14	IC LC7822				
IC502	8-759-636-74	IC M5218AP-22				
		< TRANSISTOR >				
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3				
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q501	8-729-141-30	TRANSISTOR 2SC3623A-LK				
		< RESISTOR >				
R426	1-249-429-11	CARBON	10K	5%	1/4W	
R427	1-249-439-11	CARBON	68K	5%	1/4W	
R428	1-249-417-11	CARBON	1K	5%	1/4W	F
R430	1-249-437-11	CARBON	47K	5%	1/4W	
R431	1-247-843-11	CARBON	3.3K	5%	1/4W	
R432	1-247-883-00	CARBON	150K	5%	1/4W	
R433	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R434	1-249-413-11	CARBON	470	5%	1/4W	F
R438	1-249-441-11	CARBON	100K	5%	1/4W	
R441	1-249-441-11	CARBON	100K	5%	1/4W	
R444	1-247-903-00	CARBON	1M	5%	1/4W	
R464	1-247-903-00	CARBON	1M	5%	1/4W	
R469	1-247-903-00	CARBON	1M	5%	1/4W	
R476	1-249-429-11	CARBON	10K	5%	1/4W	
R477	1-249-439-11	CARBON	68K	5%	1/4W	
R478	1-249-417-11	CARBON	1K	5%	1/4W	F
R480	1-249-437-11	CARBON	47K	5%	1/4W	
R481	1-247-843-11	CARBON	3.3K	5%	1/4W	
R482	1-247-883-00	CARBON	150K	5%	1/4W	
R483	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R484	1-249-413-11	CARBON	470	5%	1/4W	F
R491	1-249-441-11	CARBON	100K	5%	1/4W	
R492	1-247-903-00	CARBON	1M	5%	1/4W	
R494	1-247-903-00	CARBON	1M	5%	1/4W	
R501	1-247-843-11	CARBON	3.3K	5%	1/4W	
R502	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R503	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R505	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R506	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R507	1-249-417-11	CARBON	1K	5%	1/4W	F
R508	1-249-426-11	CARBON	5.6K	5%	1/4W	
R511	1-249-441-11	CARBON	100K	5%	1/4W	
R512	1-249-441-11	CARBON	100K	5%	1/4W	
R519	1-249-429-11	CARBON	10K	5%	1/4W	
R520	1-249-417-11	CARBON	1K	5%	1/4W	F
**********						
*	A-4407-443-A	VIDEO BOARD, COMPLETE				
		**********				
		< CONNECTOR >				
CNS250	1-569-060-11	SOCKET, CONNECTOR 11P				
CNS506	1-569-321-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D310	8-719-911-19	DIODE 1SS119				
		< JACK >				
J253	1-774-843-11	JACK, PIN 1P (WOOFER)				
J501	1-779-380-11	JACK, PIN 6P (FRONT/REAR/WOOFER/CENTER)				
		< TRANSISTOR >				
Q367	8-729-119-78	TRANSISTOR 2SC403SP-51				
		< RESISTOR >				
R272	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R274	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R275	1-249-429-11	CARBON	10K	5%	1/4W	
R276	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R277	1-249-429-11	CARBON	10K	5%	1/4W	
R278	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R280	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R282	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R397	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R399	1-249-426-11	CARBON	5.6K	5%	1/4W	
		< RELAY >				
RY301	1-515-793-11	RELAY				
**********						

VR-TONE

Ref. No.	Part No.	Description			Remarks
*	A-4407-441-A	VR-TONE BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C220	1-126-301-11	ELECT	1uF	20%	50V
C221	1-126-301-11	ELECT	1uF	20%	50V
C361	1-164-159-11	CERAMIC	0.1uF		50V
C362	1-164-159-11	CERAMIC	0.1uF		50V
C363	1-164-159-11	CERAMIC	0.1uF		50V
C364	1-164-159-11	CERAMIC	0.1uF		50V
C365	1-164-159-11	CERAMIC	0.1uF		50V
C381	1-126-963-11	ELECT	4.7uF	20%	50V
C382	1-126-963-11	ELECT	4.7uF	20%	50V
C383	1-126-963-11	ELECT	4.7uF	20%	50V
C384	1-126-963-11	ELECT	4.7uF	20%	50V
C385	1-126-963-11	ELECT	4.7uF	20%	50V
C421	1-137-440-11	FILM	0.018uF	5%	50V
C422	1-124-463-00	ELECT	0.1uF	20%	50V
C423	1-137-368-11	FILM	0.0047uF	5%	50V
C424	1-137-372-11	FILM	0.022uF	5%	50V
C471	1-137-440-11	FILM	0.018uF	5%	50V
C472	1-124-463-00	ELECT	0.1uF	20%	50V
C473	1-137-368-11	FILM	0.0047uF	5%	50V
C474	1-137-372-11	FILM	0.022uF	5%	50V
		< CONNECTOR >			
* CNP202	1-770-394-11	PIN, CONNECTOR (PC BOARD) 10P			
CNS402	1-568-442-11	SOCKET, CONNECTOR 9P			
CNS502	1-569-321-11	SOCKET, CONNECTOR 15P			
CNS507	1-770-403-11	HOUSING,CONNECTOR(PC BOARD)10P			
		< DIODE >			
D238	8-719-313-50	DIODE SEL6810A-TH12 (BASS BOOST)			
		< TRANSISTOR >			
Q361	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q362	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q363	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q364	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q365	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R351	1-249-417-11	CARBON	1K	5%	1/4W F
R352	1-249-417-11	CARBON	1K	5%	1/4W F
R353	1-249-417-11	CARBON	1K	5%	1/4W F
R354	1-249-417-11	CARBON	1K	5%	1/4W F
R355	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-425-11	CARBON	4.7K	5%	1/4W F
R362	1-249-425-11	CARBON	4.7K	5%	1/4W F
R363	1-249-425-11	CARBON	4.7K	5%	1/4W F
R364	1-249-425-11	CARBON	4.7K	5%	1/4W F
R365	1-249-425-11	CARBON	4.7K	5%	1/4W F
R366	1-249-441-11	CARBON	100K	5%	1/4W
R367	1-249-441-11	CARBON	100K	5%	1/4W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-249-441-11	CARBON	100K	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R371	1-249-441-11	CARBON	100K	5%	1/4W
R421	1-249-430-11	CARBON	12K	5%	1/4W
R422	1-249-422-11	CARBON	2.7K	5%	1/4W F
R423	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-247-903-00	CARBON	1M	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W F
R471	1-249-430-11	CARBON	12K	5%	1/4W
R472	1-249-422-11	CARBON	2.7K	5%	1/4W F
R473	1-247-903-00	CARBON	1M	5%	1/4W
R474	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-415-11	CARBON	680	5%	1/4W F
		< VARIABLE RESISTOR >			
RV404	1-225-446-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)			
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)			
RV423	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)			
		< SWITCH >			
S240	1-762-378-11	SWITCH, TACTILE (BASS BOOST)			
		**********			
		MISCELLANEOUS			
		**********			
10	1-782-100-11	WIRE (FLAT TYPE) (23 CORE)			
11	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)			
12	1-782-081-11	WIRE (FLAT TYPE) (15 CORE)			
61	1-782-668-11	WIRE (FLAT TYPE) (11 CORE)			
69	1-782-243-11	WIRE (FLAT TYPE) 15P			
⚠71	1-777-070-21	CORD, POWER			
⚠CNJ902	1-251-698-11	OUTLET (AC) (2P)			
⚠T901	1-431-267-21	TRANSFORMER, POWER			
		**********			
		ACCESSORIES & PACKING MATERIALS			
		**********			
	1-475-710-11	COMMANDER, STANDARD (RM-U302)			
	1-501-374-11	ANTENNA, LOOP			
	1-501-659-41	ANTENNA (FM)			
	1-501-721-11	ANTENNA (LOOP)			
	3-862-095-11	MANUAL,INSTRUCTION(ENGLISH)			
	4-981-643-01	COVER, BATTERY(FOR RM-U302)			
		**********			
		HARDWARE LIST			
		**********			
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
#2	7-685-881-09	SCREW +BVTT 4X8 (S)			
#3	7-685-872-09	SCREW +BVTT 3X8 (S)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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